



Beyond Chemistry, Crafting Legacy

AHEAD WITH
CHANGE. AHEAD
OF *Others.*

PRODUCT BROCHURE
WATERPROOFING



ISO Certified
Company

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Chemcon International



About Us

CONSTRUCTIVE THINKING. AND THE WILL TO LEAD IS WHAT DEFINES WHO WE ARE.

CHEMCON is a reputed brand providing products and solutions for the construction industry. CHEMCON has been providing solutions for the construction sector since the last 20 years. The quality and performance guarantee of our products is a result of our state of art manufacturing facility well equipped with quality control systems. CHEMCON Construction Solutions is focused on providing innovative products and services for the construction industry. Established in the year 2003 and headquartered in UAE, CHEMCON is a team of highly qualified technocrats and renowned expert in construction and waterproofing technology. We offer solutions for a wide range of construction problems and for various application areas such as waterproofing, tile & stone installation, building repair, Epoxy and Cementitious Flooring, swimming pool solutions etc.

Our research & development team is constantly working on introducing more innovative solutions for problems faced by the construction industry.

Our production facility is located at Fujairah, United Arab Emirates. Our products & solutions are tested and certified at premiere technical institutes across the world before use by various clients across different industry segments.

OVER CREDO

Our vision

Our vision is to become the foremost company providing innovative construction solutions to the building and construction industry.

Our mission

We aspire to bring advanced global construction technology to all over the world and be your trusted partner for global construction products.

Our Values

Quality

We ensure high quality standards in all our products & services to maximise client satisfaction and minimise problems in the future

Innovation

We know that to remain competitive in today's world, we must be innovative. Our products and services are driven by innovation to ensure we provide our clients the latest products in today's market

Professional Approach

The construction sector is very unorganised and only with a process oriented, professional approach will ensure long lasting performance. We consider this approach as an integral part of our service.



Driving transformative solutions that shape the future and empower progress across industries."

Our R&D teams are dedicated to advancing current and future construction trends, as well as the more immediate needs of our clients including the following :



BOOSTING ENERGY EFFICIENCY

REDUCING CONSTRUCTION COSTS

**LIMITING CEMENT'S CARBON FOOTPRINT
IN OUR PROCESSES AND PRODUCTS**

REDUCING ENVIRONMENTAL IMPACT

PROMOTING COMFORT, HEALTH AND WELL-BEING

IMPROVING AESTHETICS



BETTER SOLUTIONS AND BETTER PRODUCTS IN EVERYTHING THAT WE DO.

Any product that gets rolled out of our premises first gets tested and certified before use at the premiere technical institutes of the country. With our in-house CIL R&D setup and team of experts and working partnerships with top technical institutes, we have been able to come up with innovative products that solve real construction solution challenges.

All our products are applied and installed by our network of authorized applicators who undertake training, certification and refresher courses regularly at our training centre.

OUR RANGE OF PRODUCTS



WATERPROOFING SOLUTIONS



STRUCTURAL REPAIRS



SEALANTS



FLOORING SOLUTIONS



TILING & GROUTING SOLUTIONS

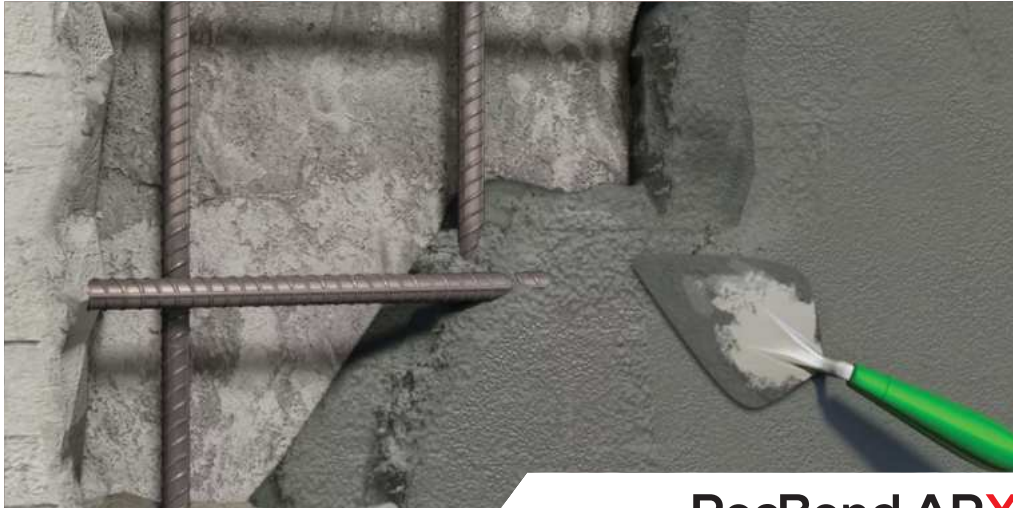


SURFACE TREATMENT

A concrete block is shown being splashed with water against a blue background. The water is splashing upwards and outwards, creating a dynamic scene. The concrete block is a simple rectangular prism, and the water is captured in mid-air, creating a sense of motion. The overall image is bright and clean, with a focus on the interaction between the solid material and the liquid.

WATER PROOFING

Technical Data Sheet - TDS



RocBond ARX

Single component acrylic bonding agent for use with RocBuild repair mortars

PRODUCT DESCRIPTION

RocBond ARX is a single component, acrylic polymer based bonding agent. It is formulated and designed for use as a bonding and curing agent for use with cementations systems especially RocBuild Mortars such as RocBuild Tg.

RocBond ARX is supplied ready for use exhibits excellent grab and develops a tenacious bond between the repair mortar and the existing concrete.

FIELD OF APPLICATION

RocBond ARX may be used with many construction materials to provide improved adhesion. Typical substrates will be concrete, masonry, stonework, plaster etc.

RocBond ARX is used for bonding of repair mortars, new concrete to old concrete. Recommended primer for use with all RocBuild repair mortars. Its tenacious grab makes it ideal for overhead and vertical applications. It can also be used as a curing aid; in this case application must take place immediately upon finishing and the area must be fully protected from rapid drying out

ADVANTAGES

- ▶ Single component, As a penetrative primer for Cementations substrates
- ▶ Supplied ready for use. Reduces the permeability of mortar
- ▶ Improves bond, flexural and tensile strength of cementitious mixes
- ▶ Brush applied either as a primer or as a curing aid. Tenacious bond to dry and damp substrates.
- ▶ As an admixture for improving the mechanical properties of cementitious mixes

DIRECTIONS FOR USE

Surface Preparation: Ensure surfaces are clean, dry and free from dust, dirt, oil, grease, laitance etc.

Ensure that reinforcing steel is clean and free from scale and rust. When repairing damaged concrete, ensure that the concrete has been cut back to thoroughly sound substrate.

All perimeter edges must be saw-cut to ensure a minimum depth of repair mortar and to avoid feather edges.

Expose fully all corroded steel in the areas to be repaired. Remove loose scale and corrosion deposits. Grit-blast to clean the steel to SA 2½, ensure the back of the steel is clean.

Concrete Priming: The cleaned substrate must be fully soaked with clean water prior to priming. The ideal condition is saturated surface dry (SSD). Brush RocBond ARX well into the concrete surface; ensure complete coverage but no ponding. Use as supplied and do not dilute with water.

Rebar Priming: Steel reinforcement should be coated with RocBuild ZP. Ensure full coverage and no pinholes. Extra caution is required around laps and the back of the steel. Allow to dry

Apply the repair mortar or screed whilst the primer is still tacky. If the primer becomes dry reapply as directed above.

Curing Aid: When used for curing RocBond ARX can be brush or spray applied. Always cover repaired areas to protect from drying winds and excessive heat. In extreme conditions water ponding will also be required.

RocBond ARX can be used as a mortar admixture and suitable repair mortar can be prepared following the mix design below.

OPC : 50 kg.
Zone 2 sand : 150 kg.
TufBondAR : 10 litres
Water : As required for consistency.

COVERAGE RATES

Consumption rates vary according to the application:

As a curing aid : 4-5 m² per liter.
As a bonding agent : 5-6 m² per liter.
As an admixture : 10litres/ 50 kg OPC.

CLEANING

Clean tools and equipment immediately after use with water. Once cured RocBond ARX can only be removed by mechanical methods

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Disclaimer

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TYPICAL PROPERTIES

Component	Single pack.
Toxicity:	Non toxic
Form	liquid
Specific gravity ASTM D1475	1.03 ±0.03gm/cc
Compressive strength BS 6319-2	> 10-15% than control
Flexural strength BS 6319-3	> 5-10% than control
Tensile strength BS 6319-7	> 5-10% than control
Tensile bond Strength ASTM C932	> 1 N/mm ²
Bond strength ASTM C1042	> 1.0 N/mm ²

PACKAGING & STORAGE

RocBond ARX is packed in 5 ltr and 15 ltr units. Store in shaded areas away from direct sunlight Shelf life will be 12 months when stored in temperatures below 30oC.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention

OTHER PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

RocShield PUD30 - High performance Polyurethane dispersant based waterproofing coating

Technical Data Sheet - TDS



CHEMCON

RocCrete Combo

A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating

PRODUCT DESCRIPTION

RocCrete is a liquid applied two component highly flexible acrylic modified cementitious coating system which requires only simple on site mixing to provide an excellent adhesion, flexibility crack bridging ability and durability. Hard wearing, waterproof membrane for roof and foundation protection. In exposed areas It is highly recommended an over coat of **Rocshield** or **RocShield HR**

RocCrete F is a blend of specially selected cements, precisely graded silica, dolomite fillers and chemical admixtures with a liquid component of pure acrylic copolymer and wetting agents

APPLICATION AND USAGE

- ▶ Waterproof roof coating, Foundation protection.
- ▶ Concrete marine structures
- ▶ Impervious lining for water retaining structures.
- ▶ Backing to marble, preventing staining.
- ▶ Fixing tiles in water tanks.
- ▶ Protection of concrete from sea water ingress.
- ▶ Coating to prevent chloride ion ingress & carbonation attack.

- ▶ Re-profiling concrete surfaces, sealing tie bar holes, general concrete repair.

ADVANTAGES

- ▶ Excellent elongation and flexibility
- ▶ Increased frost and salt resistance
- ▶ 1 mm coating provides anti-carbonation cover to over 80 cm of concrete
- ▶ Excellent adhesion, flexible, seamless.
- ▶ Provides protection during curing, can be applied to concrete 24 hours old.
- ▶ Carbon dioxide diffusivity 360 m (accepted criteria R>50m).
- ▶ Waterproof up to 7 bars of pressure.
- ▶ Weather resistant, allows surface to breath.
- ▶ Protects against carbonation and chloride attack

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces to be treated are free of dust, dirt, grease, oil and other foreign matter. Cut back spilled concrete until sound and make good with a repair mortar such as **RocBuild HF**. If repairs have been

carried out cure with water or **RocCure CL**. On old concrete remove all traces of conventional curing compounds and surface sealers prior to application.

Mixing: **RocCrete** is supplied as a powder (part A) and liquid (part B). Using a clean container, slowly add the powder to the liquid component and mix with a slow speed drill fitted with a suitable mixing paddle. **RocCrete** should be used directly after mixing. Re-mix occasionally during application; do not re-temper with water.

Mixing full units is recommended, however where required part units may be mixed providing close attention is paid to mixing ratios. Part units may be required for filling surface imperfections prior to coating the concrete.

Application: Thoroughly dampen down the concrete surface with clean water prior to application. Ideal conditions are saturated surface dry (SSD). Do not apply to dry concrete. Whilst damp, apply **RocCrete** with a bristle brush or roller at the rate of 1.4 kg/m². This is achievable in one coat on horizontal surfaces although two coats will ensure even coverage and remove pin holing. On vertical or overhead surfaces 2 or 3 coats may be required. Where more than 1 coat is required, the previous coat should be allowed to dry prior to subsequent applications.

Spray application may be suitable for larger areas; airless spray should be used with 3-4 mm nozzle sizes at 6-8 bar pressure. Trials should be conducted to finalise the best method for the application. Ensure continuous supply of mixed product when adopting this surface dry (SSD). Do not apply to dry concrete. Whilst damp, apply **RocCrete Combo** with a bristle brush or roller at the rate of 1.4 kg/m². This is achievable in one coat on horizontal surfaces although two coats will ensure even coverage and remove pin holing. On vertical or overhead surfaces 2 or 3 coats may be required. Where more than 1 coat is required, the previous coat should be allowed to dry prior to subsequent applications.

Spray application may be suitable for larger areas; airless spray should be used with 3-4 mm nozzle sizes at 6-8 bar pressure.

Trials should be conducted to finalize the best method for the application. Ensure continuous supply of mixed product when adopting this Excellent method.

Equipment should be thoroughly cleaned immediately after use with water. Hardened coating may only be removed mechanically.

As **RocCrete** is moisture tolerant it can be applied onto concrete that is only 24 hours old thereby giving immediate protection and curing.

Where heavy depressions, cracks or blowholes are present, reduce the amount of gauging liquid in the mix to the desired consistency and carry out re-profiling.

When used in tanking applications allow the coating to cure fully for 72 hours prior to water testing.

TECHNICAL PROPERTIES

Working time	30-40 mins
Mixed Density BS EN 12350 -6	1.450 +/- 0.15 @ 25°C.
Bond Strength ASTM D4541	Greater Than 1.5 N/mm ² .
Tensile Strength ASTM D412	Greater Than 1 N/mm ²
Toxicity BS 6920 -1	Non-toxic
Crack Bridging Ability ASTM C 836	▶ 1.0mm
Elongation ASTM D412	> 250% (Unbonded)
Water Penetration(DIN 1048)	Nil, tested at 5 bar pressure
Water absorption BS 1881 -5	▶ 95%
Water per meability BS 12309 -8	Nil
Tear resistance ASTM D1004	▶ 10N/mm

HEALTH & SAFETY

Care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If ingested, seek immediate medical attention.

PACKAGING & STORAGE

20 kg units (10 kg powder/ 10 kg liquid). Complete un-opened units should be stored in shaded warehouses away from heat, humidity or moisture. Shelf life 12 months.

COVERAGE

1.4 kg/m² @ 1 mm thickness. 2 coats required

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

RocSeal CP20- surface applied capillary waterproofing and plugging system.

RocShield- high performance, liquid applied acrylic roofing system.

RocCoat SB prime- solvented coating & primer.

RocCoat RBE- rubberised bitumen emulsion.

RocCoat WB primer- bitumen emulsion coating

Technical Data Sheet - TDS**CHEMCON****RocCrete C40**

A Two Part acrylic Modified Cementations Waterproof Coating

PRODUCT DESCRIPTION

RocCrete C40 is a liquid applied two component acrylic modified cementitious coating system which requires only simple on site mixing to provide a highly effective, hard wearing, waterproof membrane for roof and foundation protection.

Easy to apply by either brush, roller or trowel, RocCrete C40 will overcoat concrete, masonry and most common construction materials, providing an effective barrier to water, salts and atmospheric gases.

RocCrete C40 is a blend of specially selected cements, precisely graded silica, dolomite fillers and chemical admixtures with a liquid component of pure acrylic copolymer and wetting agents

APPLICATION AND USAGE

- ▶ Waterproof roof coating, Foundation protection.
- ▶ Impervious lining for water retaining structures.
- ▶ Backing to marble, preventing staining.
- ▶ Fixing tiles in water tanks.
- ▶ Protection of concrete from sea water ingress.
- ▶ Coating to prevent chloride ion ingress & carbonation attack.

- ▶ Re-profiling concrete surfaces, sealing tie bar holes, general concrete repair
- ▶ As a highly effective vapour sealer and curing compound.

ADVANTAGES

- ▶ 1 mm coating provides anti-carbonation cover to over 80 cm of concrete
- ▶ Excellent adhesion, flexible, seamless.
- ▶ Provides protection during curing, can be applied to concrete 24 hours old.
- ▶ Carbon dioxide diffusivity 360 m (accepted criteria R>50m).
- ▶ Waterproof up to 7 bars of pressure.
- ▶ Weather resistant, allows surface to breath.
- ▶ Protects against carbonation and chloride attack.

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces to be treated are free of dust, dirt, grease, oil and other foreign matter. Cut back spilled concrete until sound and make good with a repair mortar such as RocBuild HF or HL. If repairs have

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Disclaimer

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been carried out cure with water or RocCure CL. On old concrete remove all traces of conventional curing compounds and surface sealers prior to application.

Mixing: RocCrete C40 is supplied as a powder (part A) and liquid (part B). Using a clean container, slowly add the powder to the liquid component and mix with a slow speed drill fitted with a suitable mixing paddle. RocCrete C40 should be used directly after mixing. Re-mix occasionally during application; do not re-temper with water.

Mixing full units is recommended, however where required part units may be mixed providing close attention is paid to mixing ratios. Part units may be required for filling surface imperfections prior to coating the concrete.

Application: Thoroughly dampen down the concrete surface with clean water prior to application. Ideal conditions are saturated surface dry (SSD). Do not apply to dry concrete. Whilst damp, apply RocCrete C40 with a bristle brush or roller at the rate of 1.8 kg/m². This is achievable in one coat on horizontal surfaces although two coats will ensure even coverage and remove pin holing. On vertical or overhead surfaces 2 or 3 coats may be required. Where more than 1 coat is required, the previous coat should be allowed to dry prior to subsequent applications.

Spray application may be suitable for larger areas; airless spray should be used with 3–4 mm nozzle sizes at 6–8 bar pressure. Trials should be conducted to finalise the best method for the application. Ensure continuous supply of mixed product when adopting this surface dry (SSD). Do not apply to dry concrete. Whilst damp, apply RocCrete with a bristle brush or roller at the rate of 1.8 kg/m². This is achievable in one coat on horizontal surfaces although two coats will ensure even coverage and remove pin holing. On vertical or overhead surfaces 2 or 3 coats may be required. Where more than 1 coat is required, the previous coat should be allowed to dry prior to subsequent applications. Spray application may be suitable for larger areas; airless spray should be used with 3–4 mm nozzle sizes at 6–8 bar pressure. Trials should be conducted to finalise the best method for the application. Ensure continuous supply of mixed product when adopting this

Excellent method. Equipment should be thoroughly cleaned immediately after use with water. Hardened coating may only be removed mechanically.

Coverage: 1.8 kg/m² @ 1 mm thickness. 2 coats required.

As RocCrete C40 is moisture tolerant it can be applied onto concrete that is only 24 hours old thereby giving immediate protection and curing. Where heavy depressions, cracks or blowholes are present, reduce the amount of gauging liquid in the mix to the desired consistency and carry out re-profiling. When used in tanking applications allow the coating to cure fully for 72 hours prior to water testing.

TYPICAL PROPERTIES

Working time	30-40 mins
Mixed Density BS EN 12350-6	1.80 +/- 0.05 @ 25°C.
Bond Strength ASTM D4541	> 0.5 N/mm ²
Tensile Strength ASTM D412	> 7 N/mm ²
Toxicity BS 6920-1	Non-toxic
Crack Bridging Ability ASTM C 836	0.5mm
Elongation ASTM D412	> 40% (Un-bonded)
Toxicity	Non Toxic
Carbon Dioxide Diffusion	Nil

PACKING, STORAGE & SHELF LIFE

20 kg units (15 kg powder/ 5 kg liquid). Complete un-opened units should be stored in shaded warehouses away from heat, humidity or moisture. Shelf life 12 months.

HEALTH & SAFETY Care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If ingested, seek immediate medical attention.

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Technical Data Sheet - TDS



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RocCrete F20

A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating

PRODUCT DESCRIPTION

RocCrete F20 is a liquid applied two component highly flexible acrylic modified cementitious coating system which requires only simple on-site mixing to provide an excellent adhesion, flexibility crack bridging ability and durability. Hard wearing, waterproof membrane for roof and foundation protection. In exposed areas It is highly recommended an over coat of **Rocshield** or **RocShield HR**

- ▶ Carbon dioxide diffusivity 360 m (accepted criteria R>50m).
- ▶ Waterproof up to 7 bars of pressure.
- ▶ Weather resistant, allows surface to breath.
- ▶ Protects against carbonation and chloride attack.

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces to be treated are free of dust, dirt, grease, oil and other foreign matter. Cut back spilled concrete until sound and mix with a slow speed drill fitted with a suitable mixing paddle. **RocCreteF20** should be used directly after mixing. Re-mix occasionally during application; do not re-temper with water

Mixing: **RocCreteF20** is supplied as a powder (part A) and liquid (part B). Using a clean container, slowly add the powder to the liquid component and mix with a slow speed drill fitted with a suitable mixing paddle. **RocCreteF20** should be used directly after mixing. Re-mix occasionally during application; do not re-temper with water

RocCrete F20 is a blend of specially selected cements, precisely graded silica, dolomite fillers and chemical admixtures with a liquid component of pure acrylic copolymer and wetting agents.

APPLICATION AND USAGE

- ▶ Excellent elongation and flexibility
- ▶ Increased frost and salt resistance
- ▶ 1 mm coating provides anti-carbonation cover to over 80 cm of concrete
- ▶ Excellent adhesion, flexible, seamless.
- ▶ Provides protection during curing, can be applied to concrete 24 hours old.

On old concrete remove all traces of conventional curing compounds and surface sealers prior to application.

Mixing: RocCrete is supplied as a powder (part A) and liquid (part B). Using a clean container, slowly add the powder to the liquid component and mix with a slow speed drill fitted with a suitable mixing paddle. **RocCrete** should be used directly after mixing. Re-mix occasionally during application; do not re-temper with water.

Mixing full units is recommended, however where required part units may be mixed providing close attention is paid to mixing ratios. Part units may be required for filling surface imperfections prior to coating the concrete.

Application: Thoroughly dampen down the concrete surface with clean water prior to application. Ideal conditions are saturated surface dry (SSD). Do not apply to dry concrete. Whilst damp, apply RocCrete with a bristle brush or roller at the rate of 1.8 kg/m². This is achievable in one coat on horizontal surfaces although two coats will ensure even coverage and remove pin holing. On vertical or overhead surfaces 2 or 3 coats may be required. Where more than 1 coat is required, the previous coat should be allowed to dry prior to subsequent applications

Spray application may be suitable for larger areas; airless spray should be used with 3-4 mm nozzle sizes at 6-8 bar pressure. Trials should be conducted to finalize the best method for the application

Ensure continuous supply of mixed product when adopting this surface dry (SSD). Do not apply to dry concrete. Whilst damp, apply RocCrete with a bristle brush or roller at the rate of 1.8 kg/m². This is achievable in one coat on horizontal surfaces although two coats will ensure even coverage and remove pin holing. On vertical or overhead surfaces 2 or 3 coats may be required. Where more than 1 coat is required, the previous coat should be allowed to dry prior to subsequent applications.

Spray application may be suitable for larger areas; airless spray should be used with 3-4 mm nozzle sizes at 6-8 bar pressure. Trials should be conducted to finalize the best method for the application.

Ensure continuous supply of mixed product when adopting this Excellent method. Equipment should be thoroughly cleaned immediately after use with water. Hardened coating may only be removed mechanically.

As RocCrete is moisture tolerant it can be applied onto concrete that is only 24 hours old thereby giving immediate protection and curing.

Where heavy depressions, cracks or blowholes are present, reduce the amount of gauging liquid in the mix to the desired consistency and carry out re-profiling.

When used in tanking applications allow the coating to cure fully for 72 hours prior to water testing.

TYPICAL PROPERTIES

Working time	30-40 mins
Mixed Density BS EN 12350-6	1.90 +/- 0.15 @ 25°C.
Bond Strength ASTM D4541	Greater Than 1.0 N/mm ² .
Tensile Strength ASTM D412:	Greater Than 1N/mm ²
Toxicity BS 6920-1	Non-toxic
CrackBridging Ability ASTM C 836	1.5mm
Elongation ASTM D412	➤ 40%(Un-bonded)
Water Penetration (DIN 1048)	Nil, tested at 5 bar pressure
Carbon Dioxide Diffusion	Nil

COVERAGE

1.8 kg/m² @ 1 mm thickness. 2 coats required.

PACKING & STORAGE

Packaging & Storage: 20 kg units (15 kg powder/ 5 kg liquid). Complete un-opened units should be stored in shaded warehouses away from heat, humidity or moisture.

Shelf life: 12 months.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

RocShield PUD30 - High performance Polyurethane dispersant based waterproofing coating

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Technical Data Sheet - TDS



CHEMCON

RocShield X

Elastomeric, Acrylic Waterproofing and protective coating

PRODUCT DESCRIPTION

RocShield X is a single pack, high build, flexible, elastomeric roof coating based on weather resistant pigments, fillers and styrene acrylic ester resins. It allows concrete to breathe whilst maintaining waterproofing characteristics, has excellent bond strength and fills and bridges hairline cracks.

The cured membrane provides excellent resistance to carbonation and prevents chloride ion ingress

FIELD OF APPLICATION

RocShield X is designed for application to pitched and flat roofs constructed from a wide variety of materials i.e. concrete, lightweight concrete, roof tiles, wood, galvanized steel, asphalt, asbestos cement, slate and tiles. Other applications include waterproofing bathrooms, wet processing areas and rooms where cementitious screeds will be overlaid.

COVERAGE

1L/m²/coat for 0.5mm Dry Film Thickness. Two coats will give a combined thickness of 1.0mm thickness.

ADVANTAGES

- ▶ High build coating helps mask surface imperfections in concrete.
- ▶ Vapour permeable membrane, allows breathing of the substrate.
- ▶ Excellent bond strength.
- ▶ Seamless & flexible for bridging hairline cracks.
- ▶ Solar reflective.
- ▶ Single component. easy to apply by brush, roller or airless spray.

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces are clean, sound, stable and free of dirt, dust, grease and any other contaminants. Remove any traces of algae and fungal growth with a wire brush, treat with a fungicide solution and wash down with clean water. Old concrete may require grit blasting to remove old coatings or membranes.

New concrete can be coated once the initial water-curing period is over. Alternatively if RocCure CL is used coating may take place earlier.

Priming: Prime porous surfaces with RocCure CL, RocFloor Silicate or diluted RocShield X (25-40%). Priming will seal the surface and ensure maximum adhesion of the coating. Watchpoint: Do not apply RocShield X when rain is likely as full resistance is only achieved in the fully cured state.

Application: Apply RocShield X onto the surface in one direction taking care not to scrub the material or brush unevenly. Allow to dry and inspect for imperfections that should be made good prior to application of second or any subsequent coats. Apply second (and any subsequent coats) at right angles to the previous coats. The product can be supplied in many colours to allow easier differentiation between coats.

At upstands and across joints it is recommended that a geotextile mesh be imbedded in the coating. This will increase the physical properties and will aid distribution of localised stresses. The mesh should be applied as a sandwich between the first and second coats of RocShield X.

Across joints it is recommended to bridge the joint and to install a closed cell polyethylene strip.

Cleaning Tools: Wash tools in water immediately after use. If product has set, remove with a knife and immerse in water.

PACKING & STORAGE

RocShield X is supplied in 5 & 20kg units and is available in white and grey. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months

TYPICAL PROPERTIES

Service Temp:	65 +/- 15°C
Specific Gravity:	1.30 +/- 0.05 @ 25°C.
Bond Strength:	Greater Than 1.5N/mm ² .
Tensile Strength	1.0 N/m ²
Drying Time:	Min 6 Hours@30°C
Crack Bridging Ability ASTM C 836	0.5mm
Elongation at Break	100%
Water Penetration(DIN 1048)	Nil, tested at 5 bar pressure
VOC	< 50 g/l

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

RocShield PUD30 - High performance Polyurethane dispersant based waterproofing coating

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

Disclaimer

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Technical Data Sheet - TDS



RocShield FBX

Fiber re-reinforced Elastomeric, Acrylic Waterproofing coating

PRODUCT DESCRIPTION

RocShield FBX is a single pack, fiber re-reinforced high build, flexible, elastomeric roof coating based on weather resistant pigments, fillers and styrene acrylic ester resins. It allows concrete to breathe whilst maintaining waterproofing characteristics, has excellent bond strength and fills and bridges hairline cracks.

The cured membrane provides excellent resistance to carbonation and prevents chloride ion ingress.

FIELD OF APPLICATION

RocShield FBX is designed for application to pitched and flat roofs constructed from a wide variety of materials i.e. concrete, lightweight concrete, roof tiles, wood, galvanized steel, asphalt, asbestos cement, slate and tiles. Other applications include waterproofing bathrooms, wet processing areas and rooms where cementations screeds will be overlaid.

COVERAGE

Typical RocShield consumption will be 1-1.5 m²/ liter. For 0.5 mm D.F.T. a coverage rate of 2 liter/ m² would be required.

ADVANTAGES

- ▶ Waterproof, weatherproof, excellent UV resistance.
 - ▶ High build coating helps mask surface imperfections in concrete.
 - ▶ Vapor permeable membrane, allows breathing of the substrate.
 - ▶ Excellent bond strength.
 - ▶ Seamless & flexible for bridging hairline cracks.
 - ▶ Solar reflective.
- Single component. easy to apply by brush, roller or airless spray.

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces are clean, sound, stable and free of dirt, dust, grease and any other contaminants. Remove any traces of algae and fungal growth with a wire brush, treat with a fungicide solution and wash down with clean water. Old concrete may require grit blasting to remove old coatings or membranes

New concrete can be coated once the initial water-curing period is over. Alternatively if RocCure CL is used

coating may take place earlier.

Priming: Prime porous surfaces with RocCure CL, Roc-Floor Silicate or diluted RocShield FBX (25-40%). Priming will seal the surface and ensure maximum adhesion of the coating.

Watch point: Do not apply RocShield FBX when rain is likely as full resistance is only achieved in the fully cured state.

Application: Apply RocShield FBX onto the surface in one direction taking care not to scrub the material or brush unevenly. Allow to dry and inspect for imperfections that should be made good prior to application of second or any subsequent coats. Apply second (and any subsequent coats) at right angles to the previous coats. The product can be supplied in many colors to allow easier differentiation between coats.

At up stands and across joints it is recommended that a geotextile mesh be imbedded in the coating. This will increase the physical properties and will aid distribution of localized stresses. The mesh should be applied as a sandwich between the first and second coats of RocShield FBX.

Across joints it is recommended to bridge the joint and to install a closed cell polyethylene strip.

Cleaning Tools: Wash tools in water immediately after use. If product has set, remove with a knife and immerse in water.

PACKING & STORAGE

RocShield FBX is supplied in 5kg & 20 kg units and is available in white and grey. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

TYPICAL PROPERTIES

Service Temp:	65 +/- 15°C
Specific Gravity:	1.30 +/- 0.05 @ 25°C.
Bond Strength:	Greater Than 0.5 N/mm ² .
Tensile Strength:	Greater Than 1N/m ²
Drying Time:	Min 6Hours@30°C
Crack Bridging Ability ASTM C 836	0.5mm
Elongation at Break	>100 %
Water Penetration(DIN 1048)	Nil, tested at 5 bar pressure
VOC	< 50g/L

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

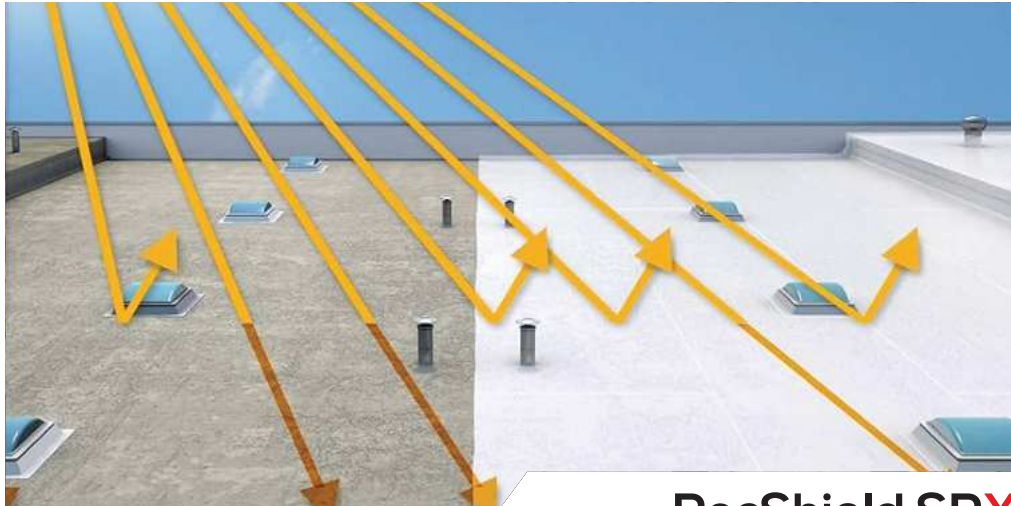
RocShield PUD30 - High performance Polyurethane dispersant based waterproofing coating

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Technical Data Sheet - TDS



RocShield SRX

High solid , high elastic Acrylic Roof waterproofing membrane

PRODUCT DESCRIPTION

RocShield SRX is a single pack, high build, flexible, elastomeric roof coating , designed to use as a superior waterproof coating system for horizontal and vertical surfaces. RocShield SRX is permeable seamless membrane with excellent adhesion. It can absorb the possible shocks caused by the contraction and expansion of the substrate surfaces and has excellent solar reflection property. It contains anti fungal and anti bacterial additives. It has excellent resistance to water, moisture and UV rays. RocShield SRX is non- Toxic environment friendly usable. It allows concrete to breath whilst maintaining waterproofing characteristics, has excellent bond strength and fills bridges hairline cracks. RocShield SRX is well suited to protect expanded PU from deterioration by U. V. rays.

TYPICAL APPLICATIONS

RocShield SRX is designed for application to roofs, terraces, balconies, domes, sandwich panels, corrugated sheets refurbishing coating works on minerals surfaced waterproofing membranes concrete facades and pitched and flat roofs constructed from a wide variety of materials i.e. concrete, lightweight concrete mosaic tiles, metal roofs, wooden roofs, asphalt, asbestos cement, slate. can be used as waterproofing and

protective coating for sloped concrete roofs & metal profile roofs. For better protection, if required, can be reinforced with RocFab (fibre glass) mesh, while the intermediate coat is wet. It can hide the hairline cracks on surfaces and reduce the impact of harsh atmospheric conditions

ADVANTAGES

- ▶ Easy and direct (cold applied) application..
- ▶ Very high reflectance properties
- ▶ Waterproofing and resistance to blistering.
- ▶ Insulation properties
- ▶ Waterproofing cum decorating of external plaster walls and old surfaces
- ▶ High build coating helps mask surface imperfections in concrete.
- ▶ Vapor permeable membrane, allows breathing of the substrate.
- ▶ Excellent bond strength.

- ▶ Excellent dirt pick-up resistance over longer period of time
- ▶ Low VOC & non-toxic , UV protection and Washable.
- ▶ Solar reflective.
- ▶ Well suited to protect expanded PU foam from deterioration by U. V. rays.
- ▶ Single component
- ▶ Easy to apply by brush, roller or airless spray.

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces are clean, sound, stable and free of dirt, dust, grease and any other contaminants. Remove any traces of algae and fungal growth with a wire brush, treat with a fungicide solution and wash down with clean water. Old concrete may require grit blasting to remove old coatings or membranes

Priming: Prime porous surfaces with RocFloor Silicate or diluted RocShield SRX (25-40%). Priming will seal the surface and ensure maximum adhesion of the coating. Watchpoint: Do not apply RocShield SRX when rain is likely as full resistance is only achieved in the fully cured state.

Application: Typical RocShield SRX system: First coat x 500 µm (Dry Film Thickness) Glass fiber (While the first coat of is still wet.) Second coat of 1 x 500 µm (Dry Film Thickness) . Other RocShield SRX systems may be specified, depending on area of use

Generally, two coats of RocShield SRX are recommended for a satisfactory performance. However, in order to achieve the best results, a RocFab (Glass fiber matting) should be used, with the RocFab being embedded into the first coat of RocShield SRX while still wet. Allow to dry and inspect for imperfections that should be made good prior to application of second or any subsequent coats. Across joints it is recommended to bridge the joint and to install a closed cell polyethylene strip.

Cleaning Tools: Wash tools in water immediately after use. If product has set, remove with a knife and immerse in water.

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TYPICAL PROPERTIES

Color	White
Consistency	Thixotropic
Density ASTMD 1475	1.25 +/- 0.05 @ 25°C.
Elongation @ break	350% @ 25°C ASTM D2370
Tensile Strength	≥1.5[N/mm ² ASTM D 412
Hydrostatic pressure at 5 bar [50m]	No leakage BS EN 12390 Part 8 : 2000
Application temperature	10°C to 50°C
Bond Strength	1N/mm ²
Solar reflectivity	90%
Solid content ASTM C-83	65 ± 2 [%]
Flash point	N/A
VOC, [g/L]	Less Than 50 ASTM D 3960/ ASTM D 2369
Water vapor transmission,	Less Than 2 ASTM E 96
Chemical Resistance	Excellent

COVERAGE

Typical RocShield SRX consumption will be 1Litre / m² / coat for 0.5 mm dft. 2 coat application will give a combined Dry Film Thickness of 1.0mm

PACKING AND STORAGE

RocShield SRX is supplied in 5kg & 20kg units and is available in white colour. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

RocShield PUD30 - High performance Polyurethane dispersant based waterproofing coating

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Technical Data Sheet - TDS



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RocShield P30

Polyurethane modified
Waterproofing and Protection coating

PRODUCT DESCRIPTION

RocShield P30 is an elastomeric waterproofing and protective coating for concrete structures with new technology based on acrylic and polyurethane emulsion offering a complete waterproofing protection system. It forms a highly elastic, seamless membrane providing excellent protection from moisture and standing water. Shows very low water uptake and crack bridging ability

ADVANTAGES

- ▶ High elastic recovery, resistance against chlorides, sulphates, bacteria, oil and common fuels.
- ▶ Good Abrasion resistance
- ▶ Good resistance to ponder water
- ▶ Excellent Chemical resistance
- ▶ Excellent bond strength.
- ▶ Solar reflective. Excellent UV resistance, weatherability properties
- ▶ Single component. Easy to apply by brush, roller or airless spray

TYPICAL APPLICATIONS

RocShield P30 is designed for application on bathrooms, Kitchen, terraces, balconies, basements, bridges and tunnels and to Profile sheets, Sunken slabs, Inverted and flat Roofs, Concrete Domes etc

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces are clean, sound, stable and free of dirt, dust, grease and any other contaminants. Remove any traces of algae and fungal growth with a wire brush, treat with a fungicide solution and wash down with clean water. Old concrete may require grit blasting to remove old coatings or membranes.

New concrete can be coated after 7 days of curing. It is recommended to use a light mechanical grinder for cleaning. Cracks and pot holes should be repaired with suitable concrete repair Products from CIL.

Steel Surfaces: The substrate should be abraded and preferably shot blasted with grit. If steel blasting is not practical, pre-treatment must be carried out with premature descaling guns, the surface should be then cleaned with a strong solvent or a detergent to remove any grease or any oil contamination. The cleaned surface must be

carried out with premature descaling guns, the surface should be then cleaned with a strong solvent or a detergent to remove any grease or any oil contamination. The cleaned surface must be coated as soon as possible before the formation of any rust or scale.

Application: Apply RocShield P30 onto the surface in one direction taking care not to scrub the material or brush unevenly. Allow to dry and inspect for imperfections that should be made good prior to application of second or any subsequent coats. Apply second (and any subsequent coats) at right angles to the previous coats.

Cleaning Tools: Clean tools with CIL Solvent immediately after use. For Anti-skid surfaces Use CIL grades of aggregates.

COVERAGE

1.0kg/m²/coat for 1.0mm DFT in 2 coats.

PACKAGING & STORAGE

RocShield PH30is supplied in 5kg& 20kg units and is available in white, grey and other color on request. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

RocShield PUD30 - High performance Polyurethane dispersant based waterproofing coating

RocCrete C40 - acrylic modified, flexible cementitious, protective coating.

RocCoat WBX- Bitumen emulsion foundation protection coating.

RocCoat SBX - solvented coating & primer.

TYPICAL PROPERTIES

Color	White, Grey and other color on request
Specific Gravity	1.25 +/- 0.1 @ 25°C.
Initial Cure @30°C	24Hours
Full Cure @30°C	7 Days
Drying Time:	2-3 Hours
Tensile Strength ASTM D412	➤ 2N/mm ²
Crack bridging	➤ 1.2mm
Elongation ASTM D412	>500 %
Solar Reflective Index	➤ 80
Tear Strength ASTM D1004	➤ 7N/mm
Application Temp	+ 5 to 45°C
Chemical resistance	Dilute acids, alkalis, chlorides, oil etc.
VOC,[g/l]	Very low

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Technical Data Sheet - TDS



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RocShield PUD30

High performance Polyurethane dispersant based waterproofing coating

PRODUCT DESCRIPTION

RocShieldPUD30 is A hybrid elastomeric waterproofing, new technology based on acrylic and urethane emulsion, offering a complete waterproofing protection system. It forms a highly elastic, seamless membrane providing excellent protection from moisture and standing water. It has excellent adhesion to most commonly used roof substrates such as concrete, asphalt membranes, cement tiles, after proper preparation or/and priming with RocBond AR Primer. Shows very low water uptake and crack bridging ability. It is a single pack water based, waterproofing and protection.

ADVANTAGES

- ▶ Excellent UV resistance, High elastic recovery
- ▶ Good Abrasion resistance
- ▶ Good resistance to ponder water
- ▶ Excellent Chemical resistance
- ▶ Excellent bond strength.
- ▶ Solar reflective.
- ▶ Single component. Easy to apply by brush, roller or airless spray.
- ▶ Application on cementitious, metal roof surface Facade area

TYPICAL APPLICATIONS

RocShieldPUD30 is designed for application to Profile sheets, Sunken slabs, Inverted and flat Roofs, Concrete Domes, terraces, balconies, basements, bridges and tunnels.

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces are clean, sound, stable and free of dirt, dust, grease and any other contaminants. Remove any traces of algae and fungal growth with a wire brush, treat with a fungicide solution and wash down with clean water. Old concrete may require grit blasting to remove old coatings or membranes

New concrete can be coated after 7 days of curing. It is recommended to use a light mechanical grinder for cleaning. Cracks and pot holes should be repaired with suitable concrete repair Products from CIL.

Steel Surfaces: The substrate should be abraded and preferably shot blasted with grit. If steel blasting is not practical, pre-treatment must be carried out with premature descaling guns, the surface should be then cleaned with a strong solvent or a detergent to remove any grease or any oil contamination. The cleaned surface must be coated as soon as possible before the formation of any rust or scale.

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Watch point: Do not apply RocShieldPUD30 when rain is likely as full resistance is only achieved in the fully cured state.

Application: Apply RocShieldPUD30 onto the surface in one direction taking care not to scrub the material or brush unevenly. Allow to dry and inspect for imperfections that should be made good prior to application of second or any subsequent coats. Apply second (and any subsequent coats) at right angles to the previous coats.

Cleaning Tools: Clean tools with CIL Solvent immediately after use.

COVERAGE

1Kg /m² at 0.5 mm thickness. Two coats will give a combined thickness of 1mm.

PACKAGING & STORAGE

RocShieldPUD30 supplied in 5kg & 20kg units and is available in white, grey and other color on request. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

RocShield PUD30 - High performance Polyurethane dispersant based waterproofing coating

RocCrete C40 - acrylic modified, flexible cementitious, protective coating.

RocCoat WBX- Bitumen emulsion foundation protection coating.

RocCoat SBX - solvented coating & primer.

TYPICAL PROPERTIES

Color	White, Grey and other color on request
Specific Gravity :	1.25 +/- 0.1 @ 25°C.
Initial Cure @30°C	24Hours
Full Cure @30°C	7 Days
Min Drying Time:	2-3 Hours @30°C
Tensile Strength ASTM D412	➤ 1 N/mm ²
Crack bridging	➤ 1.0 mm
Elongation ASTM D412	➤ 300 %
Solar Reflective Index	➤ 80
Tear Strength ASTM D1004	➤ 7N/mm
Application Temp	+ 5 to 45°C
Chemical resistance	Dilute acids, alkalis, chlorides, oil etc.
VOC g/L	< 50

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Technical Data Sheet - TDS



RocShield MB-60

Highly Flexible Elastomeric waterproof Coating

PRODUCT DESCRIPTION

RocShield MB-60 is a single component, flexible cold applied liquid waterproofing membrane, specially designed from a blend of special resin and rubber, reinforced with special water repelling fillers, minerals stabilizers and gelling agent. It is a highly elastic product, cures to a rubber like membrane capable of withstanding severe cases of expansion, contraction and deck movements. It will show High resistant to oxidation, UV light and ozone because of its special additives in compounding it.

RocShield MB-60 is more durable than normal asphalt coating and lasts longer than most other coatings.

RocShield MB-60 is superior wetting and adhesion properties ensure durable bond and resistance to peeling, chipping, and/or separation and a longer life. It has the unique property of adapting itself over the irregular contours of the deck and forming a waterproof and impervious blanket.

The cured membrane provides excellent resistance to carbonation and prevents chloride ion ingress.

ADVANTAGES

- ▶ Durable & provides an impervious waterproofing membrane that protects concrete structure and brick foundations against chloride and sulphate ions present in soils and water.
- ▶ Easy and direct (cold applied) application.
- ▶ Corrosion resistant and vapor barrier.
- ▶ Seamless, no joints.
- ▶ Waterproofing and resistance to blistering.
- ▶ High build coating helps mask surface imperfections in concrete.
- ▶ Vapor permeable membrane, allows breathing of the substrate.
- ▶ Excellent bond strength Non-toxic, and Washable.
- ▶ Excellent dirt pick-up resistance over longer period of time
- ▶ Single component. Easy to apply by brush, roller or airless spray.

FIELD OF APPLICATION

RocShield MB-60 is an Ideal waterproofing system for concrete roofs, polyurethane foam slabs, polyester built up roofs, maintenance of existing roofs, masonry and concrete walls, bathrooms, basements, bridges, decks, metal surfaces etc. Used as a sandwich membrane in new construction and as surface treatment on existing slabs.

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces are clean, sound, stable and free of dirt, dust, grease and any other contaminants. Remove any traces of algae and fungal growth with a wire brush, treat with a fungicide solution and wash down with clean water. Old concrete may require grit blasting to remove old coatings or membranes. New concrete can be coated once the initial water-curing period is over.

Priming: Prime porous surfaces with RocCure CL, RocFloor Silicate or diluted RocShieldMB-60 (1:2: RocShield MB-60: Water). Priming will seal the surface and ensure maximum adhesion of the coating.

Watch point: Do not apply RocShield MB-60 when rain is likely as full resistance is only achieved in the fully cured state.

Application: Apply RocShield MB-60 onto the surface in one direction taking care not to scrub the material or brush unevenly. Allow to dry and inspect for imperfections that should be made good prior to application of second or any subsequent coats. Apply second (and any subsequent coats) at right angles to the previous coats.

It stands and across joints it is recommended that a geotextile mesh be imbedded in the coating. This will increase the physical properties and will aid distribution of localized stresses. The mesh should be applied as a sandwich between the first and second coats of RocShield MB-60. Across joints it is recommended to bridge the joint

CLEANING TOOLS

Wash tools in water immediately after use. If product has set, remove with a knife and immerse in water.

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TYPICAL PROPERTIES

Color	Black
Specific Gravity	1.05+/-0.10@ 5°C. (ASTM D 1644-03)
Appearance	Thixotropic Paste
Solid Content %	>50(ASTM-D-1475-03)
Viscosity Spindle No: 7;RPM:10 @ 25° C	50000 - 70000 CPS
Elongation @ Break	>1000 % (ASTM D 412-98)
Water vapor Transmission (g / h - m ²)	0.46 (ASTM E 96-95)
Tack Free Time @ 35°C	10-12 hrs.
Water swelling resistance, [%]	Less Than 8 ASTM D 471
Adhesion [Dry] concrete/ steel. [psi]	Greater Than 3 (ASTM C 794 ASTM D 903)
Tensile Strength	0.50N/mm ² (ASTM D 412-98)
VOC. [g/L]	Less Than 50 ASTM D 3960/ ASTM D 2369

COVERAGE

RocShield MB-60 consumption: A coverage rate of 2 kg/m² is required for 1.0 mm. DFT

PACKING AND STORAGE

RocShield MB-60 is supplied in 5kg & 20Kg plastic/Metal pails. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

RocShield X PUD30 - High performance Polyurethane dispersant based waterproofing coating

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Technical Data Sheet - TDS



CHEMCON

RocCoat XC

Emulsified thixotropic bitumen protective coating

PRODUCT DESCRIPTION

RocCoat XC is an emulsified thixotropic bitumen protective coating. Non-fibrated bitumen emulsion coating dries to give a firm, flexible, jointures waterproof and protective membrane.

RocCoat XC is suitable for the treatment of concrete, asphalt, metal, roofing felt and other similar roofing surfaces whether flat, sloping or vertical. Where added protection is required on roofs.

- ▶ Solar reflective and Anti Fungal
- ▶ Single component, easy to apply by brush, roller or airless spray.

DIRECTIONS FOR USE

Surface Preparation: Surfaces to which RocCoat XC is to be applied must be clean and free of dirt, dust, rust or any other material which may impair adhesion. Where moss or lichen is present, remove sheets. Cut and reseal blisters in asphalt or roofing. Remove chippings other than those that form the surface of mineralized felt. Porous surfaces such as concrete and fibre reinforced cement should be primed using RocCoat XC diluted 1: 4 with clean water.

Application: Apply by brush or roller. Two or more coats must be applied to ensure a durable finish. Second and subsequent coats should be applied at right angles to each other once previous coats have fully dried. RocCoat XC may be applied to damp but not wet surfaces, dampen brushes before and occasionally during use to avoid clogging and ease application. During hot, dry weather application may be assisted by dampening the surfaces to be treated.

ADVANTAGES

- ▶ Vapour Permeable- allows substrate to breathe.
- ▶ Reduced chloride penetration due to hard, imp-meable surfaces.
- ▶ Simple and easy to use, no skilled labour required. Single component, use as supplied.
- ▶ Solvent free.
- ▶ Cold applied, no heating required.
- ▶ Non slumping.
- ▶ Easy application due to paintable consistency, suitable for new and old concrete.
- ▶ Many areas of use, versatile.

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It is very ease application. During hot, dry weather application may be assisted by dampening the surfaces to be treated.

Reinforcing System: For slate roofs or where the roof is in poor condition, a reinforcing membrane should be incorporated into the coating. Carry out surface preparation as above and apply the first coat of RocCoat XC Whilst still wet, bed in the reinforcing fabric brushing in well to ensure good adhesion. Adjacent areas of membrane should overlap by 75mm. After the fabric has been well bedded in, apply a second coat RocCoat XC. Apply two further coats RocCoat XC ensuring the previous coat is fully dry prior to subsequent applications and ease application. During hot, dry weather application may be assisted by dampening the surfaces to be treated.

PACKING & STORAGE

RocCoat XC is supplied in 15 ltr & 200 drum. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

RocCoat XC RBE-10X : Rubberised bitumen emulsion, Flexible vapor proof membrane.

RocCoat XC RBE-15X : Rubberised bitumen emulsion, Flexible vapor proof membrane.

RocCoat XC SBX : Solvent based bitumen coating and primer.

RocCoat XC WBXX : Emulsified bitumen protective coating.

COVERAGE

Coverage rates vary according to the density, porosity and texture of the concrete to be treated. Typically a coverage rate of 3-5m² per litre can be expected. Minimum recommended coverage is 5m²/ litre, two coats required.

TYPICAL PROPERTIES

Foam	Thick viscous liquid
Toxicity:	Non toxic
Density: ASTM D2939	1.03±0.3g/cc
Application Temp:	+5 to 55°C
Solid Content ASTM D 2939	40±5 %
Set Time ASTM D2939	24 hrs
Flash Point	N/A
Service temp: °C	-5 to 75
Storage:	12 months

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Technical Data Sheet - TDS



CHEMCON

RocCoat WBX

Emulsified bitumen protective coating

PRODUCT DESCRIPTION

RocCoat WBX Primer is an emulsified bitumen protective coating. Non-fibrated bitumen emulsion coating dries to give a firm, flexible, jointures waterproof and protective membrane.

RocCoat WBX Primer is suitable for the treatment of concrete, asphalt, metal, roofing felt and other similar roofing surfaces whether flat, sloping or vertical. Where added protection is required on roofs.

ADVANTAGES

- ▶ Vapor Permeable- allows substrate to breathe.
- ▶ Reduced chloride penetration due to hard, impermeable surfaces.
- ▶ Simple and easy to use, no skilled labor required. Single component, use as supplied.
- ▶ Solvent free.
- ▶ Cold applied, no heating required.
- ▶ Non slumping.
- ▶ Easy application due to paintable consistency, suitable for new and old concrete.
- ▶ Multiple areas of use, versatile

- ▶ Anti Fungal
- ▶ General waterproofing and damp proofing of concrete, asbestos cement sheets, roofing felts, wood etc.
- ▶ Protection of steelwork, pipes and metal.

DIRECTIONS FOR USE

Surface Preparation: Surfaces to which RocCoat WBX Primer is to be applied must be clean and free of dirt, dust, rust or any other material which may impair adhesion. Where moss or lichen is present, remove sheets. Cut and reseal blisters in asphalt or roofing. Remove chippings other than those that form the surface of mineralized felt. Porous surfaces such as concrete and fiber reinforced cement should be primed using RocCoat WBX Primer diluted 1: 4 with clean water.

Application: Apply by brush or roller. Two or more coats must be applied to ensure a durable finish. Second and subsequent coats should be applied at right angles to each other once previous coats have fully dried. RocCoat WBX Primer may be applied to damp but not wet surfaces, dampen brushes before and occasionally during use to avoid clogging.

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It is very ease application. During hot, dry weather application may be assisted by dampening the surfaces to be treated.

Reinforcing System: For slate roofs or where the roof is in poor condition, a reinforcing membrane should be incorporated into the coating. Carry out surface preparation as above and apply the first coat of RocCoat WBX primer . Whilst still wet, bed in the reinforcing fabric brushing in well to ensure good adhesion. Adjacent areas of membrane should overlap by 75mm. After the fabric has been well bedded in, apply a second coat RocCoat WBX primer . Apply two further coats RocCoat WBX Primer ensuring the previous coat is fully dry prior to subsequent applications.

PACKING & STORAGE

RocCoat WBX Primer is supplied in 15 ltr & 200 drum. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

RocCoat RBE-10X : Rubberised bitumen emulsion, Flexible vapor proof membrane.

RocCoat RBE-15X : Rubberised bitumen emulsion, Flexible vapor proof membrane.

RocCoat SBX : Solvent based bitumen coating and primer.

RocCoat WBXX : Emulsified bitumen protective coating.

COVERAGE

Coverage rates vary according to the density, porosity and texture of the concrete to be treated. Typically, a coverage rate of 3-5m² per liter can be expected. Minimum recommended coverage is 5m²/ liter, two coats required

TYPICAL PROPERTIES

Composition:	Blend of Portland cement and graded sand reinforced with hydraulic and organic binders.
Toxicity:	Non toxic
Plastic Density:	1850 kg/m ³
Temp Resi:	-30 to 70 °C
Tensile adhesion Strength	≥0.5N/mm ²
Yield:	25 kg mixed with 6.25 liters of water yields 18 liters of adhesive
Flash Point	N/A
Colors :	Grey and White
Storage:	12 months

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Technical Data Sheet - TDS



CHEMCON

RocCoat SBX

Solvent based bitumen coating and primer

PRODUCT DESCRIPTION

RocCoat SBX is a full bodied, solvent based bituminous paint which dries to a black, shiny coating. The formulation of specially selected bitumen's provides an effective water-proof, corrosion resistant and weatherproof system which can be applied to a wide variety of substrates including iron and steel, lead, zinc, aluminum, concrete, masonry and stone. Use RocCoat SBX as a protective coating in its own right as well as a primer for Bitumen Membrane. RocCoat SBX is resistant to low concentrations of alkalis and acids and can withstand prolonged oxidation.

- ▶ ensures ease of application and high coverage rates. Rapid drying
- ▶ Non-toxic for potable water use
- ▶ Can be applied onto damp concrete, excellent water retention for curing.
- ▶ Excellent adhesion to porous and non-porous substrates

APPLICATION AND USAGE

Metal protection - Corrugated iron, ladders, stairways, fire escapes, storage tanks, gutters, down pipes, fences, railings, gates etc.

General protection - concrete structures, foundations, stone, brickwork, screeds etc.

APPLICATION AND USAGE

- ▶ Single component, no site mixing required. Use as supplied.
- ▶ Low viscosity, paint-like consistency

DIRECTIONS FOR USE

Surface preparation: Preparation of the surface is of great importance and will influence the degree of adhesion obtained and the life of the coating. Surfaces must be sound, stable and free from dirt, grease, oil, cement laitance and mortar. Metal surfaces should be grit-blasted to SA2½ or wire brushed to remove rust.

RocCoat primer may be applied to damp concrete, brick and render surfaces; substrates should be free of standing water.

Priming steel/iron: For long term protection, an initial treat-

treatment of a rust inhibitor such as RocBuild ZP should be used.

Application: Apply by brush, roller, squeegee or spray. For spray application, dilute with white spirit (10% by volume). A minimum of 2 coats should be applied, the first being allowed to dry prior to application of the second coat. Second and subsequent coats should be applied at right angles to ensure complete, even coverage.

During sandwich membrane construction, broadcast clean sharp grit or sand into the wet second coat whilst it is still wet. This will provide a mechanical key. Remove all loose grit prior to placing the screed. Do not damage the membrane during screeding.

When applied as a curing aid, RocCoat SBX should be applied in two coats at right angles, at 5 m²/litre/coat.

Watchpoint: RocCoat SBX may bleed through any paints subsequently applied over it. A primer recommended by the paint manufacturer should be applied to the dried bitumen prior to over-coating.

Cleaning: Tools and equipment may be cleaned using GIC Solvent No.1. Spillages must be wiped off surfaces before the coating has cured.

COVERAGE

Consumption rates of RocCoat SBX will vary according to substrate, porosity and texture. In all cases at least two coats.

SPECIFICATION TYPE

RocCoat SBX complies with the requirements of the following standards:

BS 3416 Type 1 Class A & B.

BS 6920 section 4.2.8 immersion test – suitable for use with potable water

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention

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TYPICAL PROPERTIES

Form	Dark Brown liquid
Toxicity	Non toxic
Density: ASTM D2939	.87±0.03 g/cc
Temp Resi;	-5 to 70 °C
Rubber Content	Min 10%
Elongation ASTM	Min 30 %
Flash Point	N/A
Colors:	Grey and White
Storage:	12 months

PACKING & STORAGE

RocCoat SBX is supplied in 15 & 200 litre units. Mini-bulks of 1,000 litre are available upon special request. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months

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Technical Data Sheet - TDS



CHEMCON

RocCoat RBE 5X

Rubberised bitumen emulsion,
Flexible vapor proof membrane

PRODUCT DESCRIPTION

RocCoat RBE 5X is a thixotropic cold applied rubberized bitumen emulsion. The product is a single component dark brown liquid, which dries to provide a flexible, resilient coating.

Specially formulated as a waterproof and damproofer for foundations, floors, walls and roofs, it is also highly effective as an adhesive for bonding wood blocks and wood mosaics, insulation boards, cork tiles and expanded polystyrene.

APPLICATION AND USAGE

- ▶ RocCoat RBE 5X is suitable for use for protection of all types of concrete and many adhesive applications.
- ▶ Tanking and waterproofing below ground structures providing an impervious membrane.
- ▶ As a highly effective vapour sealer and curing compound.
- ▶ For sandwich membranes in new floors.
- ▶ As an adhesive for wood blocks, mosaics insulation boards, cork tiles and as a key prior to plaster or rendering.

ADVANTAGES

RocCoat RBE-5 combines the waterproofing benefits of bitumen with the elongation and crack bridging benefits of rubber latex. The result is a durable yet flexible membrane for all waterproofing applications. Curing and waterproofing can be completed in one application.

DIRECTIONS FOR USE

Surface Preparation: Surfaces to which RocCoat RBE 5X is to be applied must be clean and free of dirt, dust, rust or any other material which may impair adhesion. Where moss or lichen is present, remove sheets. Cut and reseal blisters in asphalt or roofing. Remove chippings other than those that form the surface of mineralized felt. Porous surfaces such as concrete and fiber reinforced cement should be primed using RocCoat RBE diluted 1: 6 with clean water.

Old concrete and steel must be structurally sound prior to application. Repair damaged concrete using either Roc-Build HF or RocBuild NF. Steel should be grit blasted and treated with RocBuild ZP.

Foundation protection: Roccoat RBE can be applied directly to green concrete immediately after the shutters have been removed. Two coats should be applied at right

right angles ensuring complete coverage of the area. Clean sharp sand can be used to increase D.F.T. and to provide definition between coats.

Sandwich Construction: Apply 2 coats RocCoat RBE 5X onto the smooth, clean concrete sub-floor at the rate of 1m²/litre/coat. Whilst the second coat is still tacky, blind with clean sharp sand to give protection against foot traffic and provide a key for the subsequent screed. Ensure that the membrane is taken up the walls to marry with the damp proof course (DPC) and that the dried film is not punctured or damaged. Lay the screed to a minimum 50 mm thickness and allow to dry thoroughly before laying floor covering.

Surface Treatment to existing floors: Apply a priming coat @ 7.5m² per litre by diluting 1-part RocCoat RBE 5X with 6 parts clean, cold water. Allow to dry thoroughly. Apply 2 coats RocCoat RBE 5X @ 1m² /litre/coat, taking each coat up to joint with existing DPC. Ensure the dried film is not punctured or damaged before floor covering is laid.

Watchpoint: Floor coverings containing high amounts of solvent or plasticizer should not be laid over RocCoat RBE

COVERAGE

Coverage rates vary according to the density, porosity and texture of the concrete to be treated. Typically, a coverage rate of 2m² per liter for two coats will give 500 microns D.F.T. Minimum recommended coverage is 5m²/ liter, two coats required

PACKING & STORAGE

RocCoat RBE 5X is supplied in 15 & 200 liter units. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

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TYPICAL PROPERTIES

Appearance	Dark brown liquid
Service Temp	-25°C to 85°C
Rubber Content	5±1%
Density ASTM D1475	1±0.05 @25°C
Application temp	+ 5°C to + 60°C
Flash Point	Non-Flammable
Drying time	60 minutes
Flash Point	Non-Flammable
VOV(g/l) ASTMD396 0/d2369	Less than 50

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

RocCoat RBE-10X : Rubberised bitumen emulsion, Flexible vapor proof membrane.

RocCoat RBE-15X : Rubberised bitumen emulsion, Flexible vapor proof membrane.

RocCoat SBX : Solvent based bitumen coating and primer.

RocCoat WBX : Emulsified bitumen protective coating.

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Technical Data Sheet - TDS



CHEMCON

RocCoat RBE 10X

Rubberized bitumen emulsion,
Flexible vapor proof membrane

PRODUCT DESCRIPTION

RocCoat RBE 10X is a thixotropic cold applied rubberized bitumen emulsion. The product is a single component dark brown liquid, which dries to provide a flexible, resilient coating.

Specially formulated as a waterproof and damproofer for foundations, floors, walls and roofs, it is also highly effective as an adhesive for bonding wood blocks and wood mosaics, insulation boards, cork tiles and expanded polystyrene.

APPLICATION AND USAGE

- ▶ RocCoat RBE 10X is suitable for use for protection of all types of concrete and many adhesive applications.
- ▶ Tanking and waterproofing below ground structures providing an impervious membrane.
- ▶ As a highly effective vapour sealer and curing compound.
- ▶ For sandwich membranes in new floors.
- ▶ As an adhesive for wood blocks, mosaics insulation boards, cork tiles and as a key prior to plaster or rendering.

ADVANTAGES

RocCoat RBE-10X combines the waterproofing benefits of bitumen with the elongation and crack bridging benefits of rubber latex. The result is a durable yet flexible membrane for all waterproofing applications. Curing and waterproofing can be completed in one application

DIRECTIONS FOR USE

Surface Preparation: Surfaces to which RocCoat RBE 10X is to be applied must be clean and free of dirt, dust, rust or any other material which may impair adhesion. Where moss or lichen is present, remove sheets. Cut and reseal blisters in asphalt or roofing. Remove chippings other than those that form the surface of mineralized felt. Porous surfaces such as concrete and fiber reinforced cement should be primed using RocCoat RBE 10X diluted 1: 6 with clean water.

Old concrete and steel must be structurally sound prior to application. Repair damaged concrete using either **Roc-Build HF** or **RocBuild NF**. Steel should be grit blasted and treated with **RocBuild ZP**.

Foundation protection: RocCoat RBE 10X can be applied directly to green concrete immediately after the shutters

have been removed. Two coats should be applied at right angles ensuring complete coverage of the area. Clean sharp sand can be used to increase D.F.T. and to provide definition between coats.

Sandwich Construction: Apply 2 coats **RocCoat RBE 10X** onto the smooth, clean concrete sub-floor at the rate of 1m²/litre/coat. Whilst the second coat is still tacky, blind with clean sharp sand to give protection against foot traffic and provide a key for the subsequent screed. Ensure that the membrane is taken up the walls to marry with the damp proof course (DPC) and that the dried film is not punctured or damaged. Lay the screed to a minimum 50 mm thickness and allow to dry thoroughly before laying floor covering.

Surface Treatment to existing floors: Apply a priming coat @ 7.5m² per litre by diluting 1 part **RocCoat RBE 5X** with 6 parts clean, cold water. Allow to dry thoroughly. Apply 2 coats RocCoat RBE 10X @ 1m² /litre/coat, taking each coat up to joint with existing DPC. Ensure the dried film is not punctured or damaged before floor covering is laid.

Watchpoint: Floor coverings containing high amounts of solvent or plasticiser should not be laid over **RocCoat RBE 10X**.

COVERAGE

Coverage rates vary according to the density, porosity and texture of the concrete to be treated. Typically a coverage rate of 2m² per litre for two coats will give 500 microns D.F.T. Minimum recommended coverage is 5m²/ litre, two coats required

PACKING & STORAGE

RocCoat RBE 10X is supplied in 15 & 200 litre units. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

HEALTH & SAFETY

As with all **CIL** chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

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TYPICAL PROPERTIES

Appearance	Dark brown liquid
Service temp.	-25°C to 85°C
Density ASTM D 2939	1±0.05 @25°C
Application temp	+ 5°C to + 60°C
Flash Point	Non Flamable
Solid Content, [%]	40 ± 5 approx ASTM D 2939
Drying time	60 minutes
Flash Point	Non-Flamable
VOV(g/l) ASTMD396 0/d2369	Less than 50

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

RocCrete C40 - acrylic modified, flexible cementitious, protective coating.

RocCoat WBX- Bitumen emulsion foundation protection coating.

RocCoat SBX - solvented coating & primer.

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Technical Data Sheet - TDS



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RocCoat RBE 15X

Rubberized bitumen emulsion,
Flexible vapor proof membrane

PRODUCT DESCRIPTION

RocCoat RBE 15X is a thixotropic cold applied rubberized bitumen emulsion. The product is a single component dark brown liquid, which dries to provide a flexible, resilient coating.

Specially formulated as a waterproof and damp roofer for foundations, floors, walls and roofs, it is also highly effective as an adhesive for bonding wood blocks and wood mosaics, insulation boards, cork tiles and expanded polystyrene.

APPLICATION AND USAGE

RocCoat RBE 15X is suitable for use for protection of all types of concrete and many adhesive applications.

- ▶ Tanking and waterproofing below ground structures providing an impervious membrane.
- ▶ As a highly effective vapor sealer and curing compound. For sandwich membranes in new floors.
- ▶ As an adhesive for wood blocks, mosaics insulation boards, cork tiles and as a key prior to plaster or rendering.

ADVANTAGES

RocCoat RBE 15X combines the waterproofing benefits of bitumen with the elongation and crack bridging benefits of rubber latex. The result is a durable yet flexible membrane for all waterproofing applications. Curing and waterproofing can be completed in one application.

DIRECTIONS FOR USE

Surface Preparation: Surfaces to which **RocCoat RBE 15X** is to be applied must be clean and free of dirt, dust, rust or any other material which may impair adhesion. Where moss or lichen is present, remove sheets. Cut and reseal blisters in asphalt or roofing. Remove chippings other than those that form the surface of mineralized felt. Porous surfaces such as concrete and fiber reinforced cement should be primed using **RocCoat RBE 15** diluted 1: 6 with clean water.

Old concrete and steel must be structurally sound prior to application. Repair damaged concrete using either **Roc-Build HF** or **RocBuild NF**. Steel should be grit blasted and treated with **RocBuild ZP**. Foundation protection: RocCoat RBE 15X can be applied directly to green concrete. Immediately after the shutters have been removed. Two coats be applied at right angles ensuring complete coverage of the area. Clean sharp sand can be used to increase D.F.T.

and to provide definition between coats.

Sandwich Construction: Apply 2 coats RocCoat RBE 15X onto the smooth, clean concrete sub-floor at the rate of 1m²/litre/coat. Whilst the second coat is still tacky, blind with clean sharp sand to give protection against foot traffic and provide a key for the subsequent screed. Ensure that the membrane is taken up the walls to marry with the damp proof course (DPC) and that the dried film is not punctured or damaged. Lay the screed to a minimum 50 mm thickness and allow to dry thoroughly before laying floor covering.

Surface Treatment to existing floors: Apply a priming coat @ 7.5m² per litre by diluting 1 part RocCoat RBE 15X with 6 parts clean, cold water. Allow to dry thoroughly. Apply 2 coats RocCoat RBE 15X @ 1m² /litre/-coat, taking each coat up to joint with existing DPC. Ensure the dried film is not punctured or damaged before floor covering is laid.

Watchpoint: Floor coverings containing high amounts of solvent or plasticiser should not be laid over **RocCoat RBE 15X**.

COVERAGE

Coverage rates vary according to the density, porosity and texture of the concrete to be treated. Typically, a coverage rate of 2m² per liter for two coats will give 500 microns D.F.T. Minimum recommended coverage is 5m²/ liter, two coats required.

PACKAGING & STORAGE

RocCoat RBE 15X is supplied in 15 & 200 litre units. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

Disclaimer

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TYPICAL PROPERTIES

Appearance	Dark brown liquid
Service temp.	-25°C to 85°C
Rubber Content %	▶ 10 on the dried film. ASTM D 1644
Density ASTM D 1475	1±0.05 @25°C
Elongation, [%]	> 500 ASTM D 412
Application temp	+ 5°C to + 60°C
Flash Point	Non-Flammable
Solid Content, [%]	▶ 65 ASTM D 2939
Drying time	▶ 60 minutes
Flash Point	Non-Flammable
VOV(g/l) ASTMD396 0/d2369	Less than 50

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **RocCoat SBX** - solvented coating & primer.

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STRUCTURAL REPAIRS

PRODUCT DATA SHEET

RocBond AR

Single component acrylic bonding agent for use with RocBuild repair mortars

PRODUCT DESCRIPTION

RocBond AR is a single component, acrylic polymer based bonding agent. It is formulated and designed for use as a bonding and curing agent for use with cementitious systems especially RocBuild Mortars such as RocBuild HS.

RocBondAR is supplied ready for use exhibits excellent grab and develops a tenacious bond between the repair mortar and the existing concrete.

FIELDS OF APPLICATION

RocBond AR may be used with many construction materials to provide improved adhesion. Typical substrates will be concrete, masonry, stonework, plaster etc.

RocBond AR is used for bonding of repair mortars, new concrete to old concrete. Recommended primer for use with all RocBuild repair mortars. Its tenacious grab makes it ideal for overhead and vertical applications. It can also be used as a curing aid; in this case application must take place immediately upon finishing and the area must be fully protected from rapid drying out.

ADVANTAGES

- ▶ Single component, supplied ready for use.
- ▶ Brush applied either as a primer or as a curing aid.
- ▶ Tenacious bond to dry and damp substrates.
- ▶ As an admixture for improving the mechanical properties of cementitious mixes.
- ▶ Suitable for use in internal and external applications.

ADVANTAGES

RocBond AR is packed in 5 liter units. Store in shaded areas away from direct sunlight.

Shelf life will be 12 months when stored in temperatures below 30oC.

TYPICAL PROPERTIES

Component	Single pack.
Toxicity:	Non toxic
Form	liquid
Specific gravity ASTM D1475	1.03 ±0.03gm/cc
Compressive strength BS 6319-2	> 10-15% than control
Flexural strength BS 6319-3	> 5-10% than control
Tensile strength BS 6319-7	> 5-10% than control
Tensile bond Strength ASTM C932	> 1 N/mm ²
Bond strength ASTM C1042	> 8.0 N/mm ²

DIRECTIONS FOR APPLICATION

Surface Preparation: Ensure surfaces are clean, dry and free from dust, dirt, oil, grease, laitance etc..

All perimeter edges must be saw-cut to ensure a minimum depth of repair mortar and to avoid feather edges.

Expose fully all corroded steel in the areas to be repaired. Remove loose scale and corrosion deposits. Grit-blast to clean the steel to SA 2½, ensure the back of the steel is clean.

Rebar Priming: Steel reinforcement should be coated with RocBuild ZP. Ensure full coverage and no pinholes. Extra caution is required around laps and the back of the steel. Allow to dry

Concrete Priming: The cleaned substrate must be fully soaked with clean water prior to priming. The ideal condition is saturated surface dry (SSD). Brush RocBond AR well into the concrete surface; ensure complete coverage but no ponding. Use as supplied and do not dilute with water.

Apply the repair mortar or screed whilst the primer is still tacky. If the primer becomes dry reapply as directed above.

Curing Aid: When used for curing RocBond AR can be brush or spray applied. Always cover repaired areas to protect from drying winds and excessive heat. In extreme conditions water ponding will also be required.

RocBond AR can be used as a mortar admixture and suitable repair mortar can be prepared following the mix design below.

OPC.50 kg.

Zone 2 sand.150 kg. TufBondAR.10 liters

Water as required for consistency.

COVERAGE RATES

Consumption rates vary according to the application:

As a curing aid : 4-5 m² per liter.

As a bonding agent : 5-6 m² per liter.

As an admixture : 10litres/ 50 kg OPC.

CLEANING

Clean tools and equipment immediately after use with water. Once cured RocBond AR can only be removed by mechanical methods.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OUR PRODUCT RANGE

RocBond GP- General Purpose priming adhesive for epoxy overlays and toppings.

RocBond EP- Epoxy bonding agent for concrete repairs & bonding new concrete to existing concrete.

RocFloorEP Primer- Epoxy sealer and bonding agent for concrete floors.

CILTILE GROUT EG- chemically resistant epoxy tile grout and joint filler

CIL Tile Grout- water resistant, polymer modified cement based grout.

CIL Wall Tile Adhesive (WTA)-acrylic modified ready mixed wall tile adhesive paste

CIL Tile Latex- rubber latex admixture for enhancing the physical properties of cement based mortars.

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PRODUCT DATA SHEET

RocBuild FC

Single component, polymer modified fairing coat

PRODUCT DESCRIPTION

RocBuild FC is a single component, acrylic polymer modified fairing coat designed to fill pores, blowholes, minor honeycombs on a concrete surface. This can also be used as a skim coat prior to the application of protective coatings. It is a shrinkage compensated crack free material, which can be applied as thin surface coats. Surface irregularities of up to 3.5 mm can be filled with a scrape coat application. The use of specially selected and formulated polymers means subsequent curing of RocBuild FC is not normally required for internal applications.

FIELDS OF APPLICATION

As a fairing coat to cover and make good irregular finishes to concrete surfaces. Filling blow holes & small areas of honeycombing. As a skim coat prior to application of protective coatings and paint systems can be used as a skim coat and as an aesthetic mortar smoothen out damaged patches on concrete surfaces due to shutter movement and grout loss. As fairing coat prior to the application of protective coatings.

ADVANTAGES

- ▶ Shrinkage compensated and crack resistant.
- ▶ Single component, simple to mix & use.
- ▶ Priming not required.
- ▶ Excellent adhesion & flexibility to damp concrete substrates.
- ▶ Pre-bagged and factory blended to avoid site batching errors.
- ▶ Contains no chloride based additives.
- ▶ Suitable for new and old concrete.
- ▶ Requires only on site addition of water.
- ▶ Smooth, easily applied and flexible.
- ▶ Low permeability.
- ▶ Resistant to the attacks of chlorides and other mild chemicals.

TYPICAL PROPERTIES

Form	Powder
Pot life	30-40 mins @30°C
Wet Density	1.8g/cc±0.05
Application Temp:	30+/-10°C
Drying Time	Min 6 hours
Recommended thickness	1 - 3mm
Bond Strength ASTM D4541	Min 1.5N/m ²
Compressive Strength BS 63192	Min 25N/mm ² @28days
Drying Shrinkage	< 500microstrain @28days
Water Permeability @5bar pressure,mm	Less than 10

DIRECTIONS FOR APPLICATION

Surface Preparation: The concrete to be treated must be free from dust, loosely adhered material, and plaster and cement droppings, grease oil and paints etc. On old concrete ensure the substrate is structurally sound prior to application. Roughen the surface by sand-blasting or stone rubbing to remove surface laitance. Cleaned areas should be blown clean with compressed air prior to soaking with clean water.

Mixing: Only mix as much RocBuild FC as is required for immediate use. Small quantities may be mixed by hand, however a forced action mixer should be used for full bags. For part bag mixing, use 3 parts powder to 1 part water, by volume. Always add powder to water. Care should be taken to mix the material thoroughly. For full bag quantities, use 7.0+/- 0.5 liter per 25 kg bag. Water should be added to the mixer first, the powder should be added whilst the mixer is turning. High ambient temperatures require the maximum water addition rate. Do not however exceed 7.5 liter/ 25 kg bag or add additional water once mixing is completed.

Application: Only apply RocBuild FC on to prepared and thoroughly soaked substrates. Standing water should be however be removed. Apply using a steel trowel from a feather edge up to a maximum of 3.5 mm. For blow holes, a maximum depth of 10 mm is recommended. All blow holes, voids and imperfect tin should be filled prior to application as a fairing coat. Use a minimum amount of working and allow to partly set prior to final finishing. During summer months storing the product in shaded areas and using chilled water will aid application and mixing.

Curing: Due to the thin section nature of this product protection during hydration is required and water curing is recommended in external and hot weather applications. The repaired area should be cured with wet hessian and polyethylene sheets for 3 days before over-coating with RocCure CL. Where the use of water is not practical, protect from drying winds and sun by curing with RocCure CL and cover with polyethylene sheets.

Over coating: If required RocBuild FC may be over coated after approx. 3 days. Use RocCote protective coatings.

COVERAGE

Consumption rates vary according to the surface irregularities of the concrete to be made good. As a fairing coat on even surfaces at 2mm thickness, a coverage rate of 8 m²/ 25 kg bag will be achieved.

PACKAGING & STORAGE

RocBuild FC is available in 25 kg. Bags and should be stored as cement under dry frost-free conditions in shaded warehouses. Shelf life will be 9 months

HEALTH & SAFETY

As with all GIC chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OUR PRODUCT RANGE

RocBuild EL-High build epoxy lining for chemical & abrasion resistance Applications

RocBuild MC-Shrinkage compensated, polymer modified, micro concrete

RocBuild TG -Single component, hot climates, concrete and masonry Reinstatement Repair mortar

RocCoat NT -Non-toxic, epoxy resin coating for potable water applications

RocBond AR-Single component acrylic bonding agent and Primer

RocBuild HL-Lightweight High Build Cementations' repair mortar

RocBuild NF-Multipurpose, non-slump adhesive & repair putty

RocBuild ZP -Single component, epoxy zinc primer for steel

TufCote PE -Solvent free pitch extended epoxy resin protective coating

RocBuild FC-Single component, polymer Modified fairing coat

RocBuildHS-Shrinkage compensated, High Strength, Fiber Reinforced, Structural Repair mortar

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PRODUCT DATA SHEET

RocBuild HF

Shrinkage compensated, fiber reinforced, structural repair mortar



PRODUCT DESCRIPTION

RocBuild HF is a single pack structural grade, polymer modified, fiber reinforced cementitious repair mortar. RocBuild HF is a high strength reinstatement mortar with shrinkage compensating properties. The product is ready to use, requiring only the on-site addition of water.

RocBuild HF consists of a blend of Portland cement graded silica sands, styrene polymers, non-asbestos fibers and shrinkage control agents. Drying shrinkage is controlled to ensure complete void filling and therefore effective load transfer. RocBuild HF is a quality controlled repair mortar that exhibits low slump characteristics coupled with remarkable ease of application. The presence of a polymer ensures an excellent bond to most surfaces and improves such properties as impermeability, flexural and tensile strength. Cellulose fibers improve water retention to aid complete hydration of the cement.

TYPICAL APPLICATION

For structural repair programs reinstating chloride attacked or structurally damaged concrete. Suitable for repairs in marine environments where gun applied mortar is required.

COVERAGE RATE

- ▶ High strength & related physical properties.
- ▶ Cellulose fibres improve water retention.
- ▶ Excellent bond to concrete substrates
- ▶ Contains no chloride additives.
- ▶ Shrinkage compensated for use in structural reinstatement applications.
- ▶ Prepackaged to provide reliable and reproducible site results.
- ▶ Compatible with RocCote and other protective coating systems.

PACKING AND STORAGE

RocBuild HF is available in 25 kg bags and should be stored as cement, under dry frost-free conditions. Shelf life will be 9 months.

TYPICAL PROPERTIES

Mixed Density	1.85±.05Kg/m ³
Color and Appearance	Grey powder
Slant shear bond strength (Bs 1881)	➢ 24N/mm ² @ 28days
Flexural Strength (BS 1881)	➢ 5.5N/mm ² @28days
Tensile Strength (BS 1881)	➢ 1.5N/mm ² @28 days
Compressive Strength (BS 1881)	➢ 50 N/mm ² at 28 days
Adhesion Strength (BS1881)	➢ 1.5N/mm ² @28 days
Water Absorption ISAT BS 1881)	< 0.18ml/m ² /sec at 10 mins
Drying shrinkage(A STM C 596)	< 350 micro strain @ 28 days

DIRECTION OF USES

Substrate Preparation: The perimeter of the area to be prepared must be clearly marked. The substrate must be sound and free from dust, oil, grease or other contaminants and should be suitably textured to provide adequate mechanical key; water jetting or needle gunning may achieve this. Edges must be cut back to at least 12mm to avoid feather edging. After preparation if the substrate is still weak or the steel is still corroded the extent of the area to be repaired must be increased. The surface should then be cleaned with oil-free compressed air.

Priming: The reinforcement must be fully exposed and thoroughly cleaned around its whole circumference during preparation. Grit blasting to SA2½- SIS215-900:67 is the preferred method. The steel should then be coated with RocBuild ZP.

Selection of a concrete bonding agent will depend on the cause of the damage. For chloride induced repairs use RocFloorEP Primer. Being epoxy based the bonding agent will seal the perimeter of the repair preventing chlorides from migrating to the repair from the parent concrete. For all other repairs use either RocBuild PS.

Mixing: It is recommended that RocBuild HF is mixed by forced action mixer (e.g. Creteangle) adding the powder to the water and mixing for approx. 3 minutes until homogenous; care must be taken to avoid over-mixing since air-entrainment could reduce the properties of the material. RocBuild HF requires 3.9 litres of water per bag. This may be adjusted + 10% to vary the consistency of the mix.

Application: RocBuild HF must be applied whilst the priming coat is still tacky; compact with a rubber gloved hand or wooden trowel. Ensure complete contact and compaction with the substrate. Finish with a steel float. Thicknesses of 30-50 mm are possible in one coat, depending on application parameters. For deeper sections, multiple applications will be necessary; intermediate coats should be textured to provide a key for subsequent coats. Successive applications will not require the use of the primer coat provided that the re-application is undertaken within 2 hours; if required use RocBond A.

Curing: Proper curing of RocBuild HF is essential, use wet hessian and polyethylene sheet for 3 days. If water curing proves impractical use RocCure CL immediately after initial set and provide full protection from sun and drying winds.

Surface Treatments : In order to unify the appearance of a structure and to prevent further deterioration by the ingress of water and carbon dioxide, the use of one of the RocCote/RocCreterange of coatings is recommended.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If

OUR PRODUCT RANGE

RocBuild EL--High build epoxy lining for chemical & abrasion resistance Applications

RocBuild MC--Shrinkage compensated, polymer modified, micro concrete

RocBuild TG--Single component, hot climates concrete and masonry Reinstatement Repair mortar

RocCoat NT--Non-toxic, epoxy resin coating for potable water applications

RocBond AR--Single component acrylic bonding agent and Primer

RocBuild HL--Lightweight High Build Cementations' repair mortar

RocBuild NF--Multipurpose, non-slump adhesive & repair putty

RocBuild ZP--Single component, epoxy zinc primer for steel

TufCote PE--Solvent free pitch extended epoxy resin protective coating

RocBuild FC--Single component, polymer Modified fairing coat

RocBuildHS--Shrinkage compensated, High Strength, Fiber Reinforced, Structural Repair mortar

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PRODUCT DATA SHEET

RocBuild HS

Shrinkage compensated, High Strength, Fiber Reinforced Structural Repair mortar



PRODUCT DESCRIPTION

RocBuild HS is a single pack, polymer modified, fiber reinforced cementitious repair mortar. RocBuild HS is a high strength reinstatement mortar with shrinkage compensating properties. RocBuild HS consists of a blend of Portland Cement, graded silica sands, polymers, non-asbestos fibers and shrinkage control agents. Drying shrinkage is controlled to ensure complete void filling and therefore effective load transfer. RocBuild HS is a quality controlled repair mortar that exhibits low slump characteristics coupled with remarkable ease of application. The presence of a copolymer ensures an excellent bond to most surfaces and improves such properties as impermeability, flexural and tensile strength. Cellulose fibers improve water retention to aid complete hydration of the cement.

ADVANTAGES

- ▶ High strength and related physical properties.
- ▶ Cellulose fibers improve water retention.
- ▶ Excellent bond to concrete substrates.
- ▶ Contains no chloride additives.
- ▶ Shrinkage compensated for use in structural reinstatement applications.
- ▶ Prepackaged to provide reliable and reproducible site results.
- ▶ Compatible with RocCoat and other protective coating systems

TYPICAL APPLICATION

For structural repair programs reinstating chloride attacked or structurally damaged concrete. Suitable for repairs in marine environments where gun applied mortar is required.

PACKING AND STORAGE

RocBuild HS is available in 25 kg bags and should be stored as cement, under dry frost-free conditions. Shelf life will be 9 months.

TYPICAL PROPERTIES

Color and Appearance	Grey powder
Mixed Density	2.0±0.1 kg/m ³
Pot life	30-40 mins @30°C
Service temp:	+5°C to 65°C
Application Temp:	30+/-10°C
Drying Time	Min 6 hours
Shear Bond strength ASTM C 882	Min 15 N/mm ² @ 28days
Flexural Strength (BS 1881)	▶ 7N/mm ² @28days
Bond Strength ASTM D4541	Min 1.5N/m ²
Compressive Strength BS 6319-2	▶ 50N/mm ²

COVERAGE

Typical RocShield consumption will be 1-1.5 m²/litre. For 1.5 m D.F.T. a coverage rate of 2 litre/m² would be required.

DIRECTION OF USES

Substrate Preparation: The perimeter of the area to be prepared must be clearly marked. The substrate must be sound and free from dust, oil, grease or other contaminants and should be suitably textured to provide adequate mechanical key; water jetting or needle gunning may achieve this. Edges must be cut back to at least 12mm to avoid feather edging. After preparation if the substrate is still weak or the steel is still corroded the extent of the area to be repaired must be increased. The surface should then be cleaned with oil-free compressed air

Priming: The reinforcement must be fully exposed and thoroughly cleaned around its whole circumference during preparation. Grit blasting to SA2½- SIS215-900:67 is the preferred method. The steel should then be coated with RocBuild ZP

Selection of a concrete bonding agent will depend on the cause of the damage. For chloride induced repairs use RocBond EP. Being epoxy based the bonding agent will seal the perimeter of the repair preventing chlorides from migrating to the repair from the parent concrete. For all other repairs use either RocBuild PS or RocBond AR.

Mixing: It is recommended that RocBuild HS is mixed by forced action mixer (e.g. Creteangle) adding the powder to the water and mixing for approx. 3 minutes until homogenous; care must be taken to avoid over-mixing since air-entrainment could reduce the properties of the material. TufBuild HS requires 3.9 litres of water per bag. This may be adjusted + 10% to vary the consistency of the mix.

Application: RocBuild HS must be applied whilst the priming coat is still tacky; compact with a rubber gloved hand or wooden trowel. Ensure complete contact and compaction with the substrate. Finish with a steel float. Thicknesses of 30-50 mm are possible in one coat, depending on application parameters. For deeper sections, multiple applications will be necessary; intermediate coats should be textured to provide a key for subsequent coats. Successive applications will not require the use of the primer coat provided that the re-application is undertaken within 2 hours; if required use RocBond AR.

Curing: Proper curing of RocBuild HS is essential, use wet hessian and polyethylene sheet. If water curing proves impractical use RocCure CL immediately after initial set and provide full protection from sun and drying winds.

Surface Treatments: In order to unify the appearance of a structure and to prevent further deterioration by the ingress of water and carbon dioxide, the use of one of the RocCo-teRocCrete range of coatings is recommended.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention

OUR PRODUCT RANGE

RocSeal CP 20- surface applied capillary water-proofing and plugging system.

RocCrete acrylic modified, flexible cementitious, protective coating.

RocCoat SB prime solvented coating & primer.

RocCoat RBE- rubberised bitumen emulsion with minimum 10% rubber latex.

RocCoat WB primer- bitumen emulsion foundation protection coating mortar.

CIL Tile Grout - water resistant, polymer modified cement based grout.

CIL WALL TILE ADHESIVE -Acrylic Modified ready mixed wall tile adhesive paste

CIL Tile FIX L - High strength latex based two component tile glue.

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RocBuild MC

Shrinkage compensated, polymer modified, micro

PRODUCT DESCRIPTION

ocBuild MC is a single component, polymer modified, pre-bagged repair concrete. When mixed and installed in accordance with the printed instructions, RocBuild MC is a high strength, free flowing precision concrete. During placement the concrete is free from segregation and bleeding. RocBuild MC contains a dual expansion system, which compensates for shrinkage in both the plastic and hardened phases of curing.

FIELDS OF APPLICATION

As a repair concrete for filling large volume voids where the depth is generally in excess of 40 mm. Where compaction and vibration of concrete is made difficult by the location and congestion of reinforcement or shuttering. As part of the RocBuild repair range where a reinstatement of an alkaline environment around reinforcement is required. A repair concrete with precision properties and high early compressive strengths.

ADVANTAGES

- ▶ It can be applied for large volume repairs in excess of 20 mm. The product can be applied in sections generally up to 300 mm
- ▶ Large volume or area repairs where the use of hand or trowel applied mortars is impractical
- ▶ The hardened product exhibits excellent thermal compatibility with concrete and has very low water absorption properties.
- ▶ Dual expansion system which compensates for shrinkage in the plastic and hardened phases of curing.
- ▶ Excellent adhesion to damp concrete substrates.
- ▶ Free flowing- suitable for placement without vibration. Eliminates honeycombing in areas of congested reinforcement.

TYPICAL PROPERTIES

Form	Grey Powder
Density@25°C	2400kg/ltr±100
Working time@25°C	40±10min
Flexural Strength(BS 63193)	➤ 9.0N/mm ² @28days
Tensile Strength (BS 63197)	➤ 4.0N/mm ² @28 days
Compressive Strength (ASTM C109)	➤ 40N/mm ² at 28 days
Bond Strength @25°C	➤ 1.0N/mm ² @28 days
Water Absorption ISAT BS 1881-208)	<0.010ml/m ² /sec at 2hrs
Drying shrinkage(AS TM C 596)	< 350 micro strain @ 28days

DIRECTIONS FOR APPLICATION

Surface Preparation: The concrete to be treated must be free from dust, loosely adhered material, and plaster and cement droppings, grease oil and paints etc. On old concrete ensure the substrate is structurally sound prior to application. Roughen the surface by sandblasting or stone rubbing to remove surface laitance. Reinforcement must be cleaned and all corrosion removed before application of RocBuild MC. If there is a significant loss of section due to corrosion the rebar must be replaced. Steel

Steel should be primed with RocBuild ZP immediately after cleaning. The perimeter edges of the repair should be saw cut to 20 mm to ensure there are no feather edges. Formwork should be grout tight and water-tested prior to application. Ensure minimum cover to all reinforcement.

Priming: Priming is not required for most applications. The substrate must be thoroughly soaked to an ideal state of saturated surface dry (SSD). This will prevent absorption to the parent concrete. Where a barrier to aggressive soluble salts is required, the use of RocBond EP epoxy bonding agent is recommended. When cured, RocBond EP will prevent migration of chlorides or sulphates to the repaired areas. When RocBond EP is used, soaking the repair is not required. The formwork should be erected and repair concrete placed within the open time of RocBond EP.

Mixing: Only mix as much RocBuild MC as is required for immediate use. It is essential that forced action mixers be used as through mixing is required to achieve the specified results.

Water should be added at 3.5 liters per 25 kg bag. Adjust by +/- 10% to suit ambient temperatures. Always add powder to water. Mix thoroughly and visually inspect to ensure a homogenous product is achieved. Placing: Once mixed, RocBuild MC should be placed within 25 minutes. This will ensure maximum fluidity and self-compaction. Pour steadily and continuously into the formwork to avoid entrapment of air.

Curing: RocBuild MC must be fully cured to ensure the specified properties and attained. Use water and hessian or RocCure Clear; a permanent membrane which also acts as a primer for subsequent RocCoat coatings

COVERAGE

Consumption rates vary according to the surface irregularities of the concrete. A Minimum 8 Metre Square / 25 kg bag will be achieved.

PACKAGING & STORAGE

RocBuild MC is available in 25 kg bags and should be stored as cement under dry Frost-free conditions in shaded warehouses. Shelf life will be 12 months.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

OUR PRODUCT RANGE

RocBuild EL-High build epoxy lining for chemical & abrasion resistance Applications

RocBuild MC-Shrinkage compensated, polymer modified, micro concrete

RocBuild TG -Single component, hot climates, concrete and masonry Reinstatement Repair mortar

RocCoat NT -Non-toxic, epoxy resin coating for potable water applications

RocBond AR-Single component acrylic bonding agent and Primer

RocBuild HL-Lightweight High Build Cementations' repair mortar

RocBuild NF-Multipurpose, non-slump adhesive & repair putty

RocBuild ZP -Single component, epoxy zinc primer for steel

TufCote PE -Solvent free pitch extended epoxy resin protective coating

RocBuild FC-Single component, polymer Modified fairing coat

RocBuildHS-Shrinkage compensated, High Strength, Fiber Reinforced, Structural Repair mortar

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local or \Products representative or visit our website for current technical data and instructions.

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PRODUCT DATA SHEET

RocBuild TG

Single component, hot climates, concrete and masonry
Reinstatement Repair mortar



PRODUCT DESCRIPTION

RocBuild TG is a single pack, polymer modified, fiber reinforced cementitious repair mortar. RocBuild TG is a high strength reinstatement mortar with shrinkage compensating properties. RocBuild TG consists of a blend of Portland cement, graded silica sands, styrene acrylic copolymers, non-asbestos fibers and shrinkage control agents.

ADVANTAGES

- ▶ High strength and related physical properties.
- ▶ Maximum compatibility with concrete of compressive strength 35 - 60 N/mm²
- ▶ Excellent bond to concrete substrates
- ▶ RocBuild TG is suitable for repair methods 3.1, 3.3, etc. as defined by BS EN 1504-3.
- ▶ Contains no chloride additives.
- ▶ Shrinkage compensated for use in structural reinstatement applications.
- ▶ Prepackaged to provide reliable and reproducible site results.
- ▶ Compatible with RocCote and other protective coating systems.

TYPICAL APPLICATION

General concrete and masonry repairs. Vertical and overhead repairs to restore 'cover crete. Voids greater than 10 mm deep. Repairs to honey combing. Larger scale repairs where formwork cannot be erected. Advantages High build achievable without formwork - saving time and expense of multiple applications. Formulated for use in hot climates can be applied by the wet or dry spray process for fast exceptionally high build repairs with enhanced characteristics Low permeability provides good protection against carbon dioxide and chlorides Excellent bond to concrete substrate Shrinkage compensated Contains no chloride admixtures Description. RocBuild TG is supplied as a ready to use blend of dry powders, which requires only the addition of clean water to produce a highly consistent, lightweight repair mortar suitable for general purpose concrete and masonry repairs. Properties The following typical results were obtained at water to powder ratio of 0.18 and temperature of 20°C

TYPICAL PROPERTIES

Mixed Density	1.85±.05Kg/m ³
Color and Appearance	Grey powder
Slant shear bond strength (Bs 1881)	➤ 24N/mm ² @ 28days
Flexural Strength (BS 1881)	➤ 5.5N/mm ² @28days
Tensile Strength (BS 1881)	➤ 15N/mm ² @28 days
Compressive Strength (BS 1881)	➤ 40 N/mm ² at 28 days
Adhesion Strength (BS1881)	➤ 15N/mm ² @28 days
Water Absorption ISAT BS1881)	< 0.18ml/m ² /sec at 10 mins
Drying shrinkage(A STM C 596)	< 350 micro strain @ 28 days

PACKING AND STORAGE

RocBuildTG is available in 25 kg bags and should be stored as cement, under dry frost-free conditions. Shelf life will be 12 months

DIRECTION OF USES

Substrate Preparation: The perimeter of the area to be prepared must be clearly marked. The substrate must be sound and free from dust, oil, grease or other contaminants and should be suitably textured to provide adequate

mechanical key; water jetting or needle gunning May Achieve this. Edges must be cut back to at least 12mm to avoid feather edging. After preparation if the substrate is still weak or the steel is still corroded the extent of the area to be repaired must be increased. The surface should then be cleaned with oil-free compressed air.

Priming: The reinforcement must be fully exposed and thoroughly cleaned around its whole circumference during preparation. Grit blasting is the preferred method. The steel should then be coated with RocBuild ZP. Selection of a concrete bonding agent will depend on the cause of the damage. For chloride induced repairs use RocBondEP. Being epoxy based the bonding agent will seal the perimeter of the repair preventing chlorides from migrating to the repair from the parent concrete. For all other repairs use either RocBuild PS or RocBond AR. Refer to separate data sheets for product instructions.

Mixing: It is recommended that RocBuild TG is mixed by forced action mixer (e.g. Creteangle) adding the powder to the water and mixing for approx. 3 minutes until homogenous; care must be taken to avoid over-mixing since air-entrainment could reduce the properties of the material. RocBuildTG requires 4.5litres of water per bag. This may be adjusted + 10% to vary the consistency of the mix. The mix remains workable for 30-40 minutes, depending on ambient conditions

Application: RocBuild TG must be applied whilst the priming coat is still tacky; compact with a rubber gloved hand or wooden trowel. Ensure complete contact and compaction with the substrate. Finish with a steel float. Thicknesses of 30-50 mm are possible in one coat, depending on application parameters. For deeper sections, multiple applications will be necessary; intermediate coats should be textured to provide a key for subsequent coats. Successive applications will not require the use of the primer coat provided that the re-application is undertaken within 2 hours; if required use RocBond AR

Curing: Proper curing of RocBuild TG is essential, use wet hessian and polyethylene sheet for 3 days. Thereafter use RocCure CL. If water curing proves impractical use RocCure CL immediately after initial set and provide full protection from sun and drying winds.

Surface Treatment: In order to unify the appearance of a structure and to prevent further deterioration by the ingress of water and carbon dioxide, the use of one of the RocCoterange of coatings is recommended. RocCrete combines excellent protective properties with a natural concrete appearance.

OUR PRODUCT RANGE

RocBond EP- Epoxy resin bonding agents suitable for bonding new to old concrete.

RocFloor EP Primer - General purpose priming adhesive for epoxy overlays and toppings.

RocBond A - single component, acrylic bonding agent & curing aid for use with TufBuild repair mortars.

CILTile Grout E- chemically resistant epoxy tile adhesive & grout.

CIL TILE FIX- cement based tile adhesive mortar.

CIL Tile Fix L High strength latex based two component tile glue.

CIL Wide Joint Grout- Waterproof tile grout specially formulated for wide joints upto 8mm.

CIL Tile FixSP- Flexible tile adhesive specially for swimming pools.

CIL Tile Latex- rubber latex admixture for enhancing the physical properties of cement based mortars.

HEALTH & SAFETY

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SEALANTS



PRODUCT DATA SHEET



CIL Poly Board

Flexible Bitumen impregnated compressible fiber filler board

PRODUCT DESCRIPTION

CIL PolyBoard is a flexible bitumen impregnated compressible fiber board for expansion joints. Bitumen is incorporated into the board during manufacture for its moisture resistance and durability. The impregnated flexible soft board is made from wood fibers chips and proprietary materials. This mechanically reduced to fibers which are then pressed to foam a continuous sheet.

TYPICAL APPLICATION

CIL PolyBoard is generally used for Roofs and floor finishes and is ideal for filling expansion joints in concrete floors. External wall cladding, filling structural expansion and structural separation joints in block and in-situ concrete. Trafficable surfaces such as filling expansion joints in motor ways, runways, pedestrian areas, bridges etc. Internal surfaces such as filling expansion joints across concrete floors including screed floors. Building super structures where filling expansion joints in basements retaining walls, site slabs, subways, and other water excluding structures. Weight distributing layer in combination with a leveling compound. Protection of waterproofing membranes and coatings from mechanical abuse and against backfill. Protection board for pressure sensitive layers.

ADVANTAGES

- ▶ Chemically inert
- ▶ Soft and compressible.
- ▶ Can easily be accommodated in joints of varying widths.
- ▶ Highly resilient. Accommodates dynamic joints
- ▶ Different sizes
- ▶ Odorless
- ▶ Easy to install
- ▶ Excellent recovery after 40-50% compression

PACKAGING & STORAGE

CIL PolyBoard is supplied in 12mm- 18mm, and 25mm. Store in clean, cool, and dry areas protected from direct sunlight. Unopened boards may be stored for up to 12 months

TYPICAL PROPERTIES

Type	Bitumen impregnated sheet
Color	Dark Brown
Humidity	6-9%
Fire Class DIN EN 13501-1	Class E
Thermal conductivity DIN EN 13501-1	Approx. 0.05 W/m ² K
Maximum Extrusion of 50% compression	< 1mm
Brittleness	No cracks

DIRECTION OF USES

CIL PolyBoard Expansion Joint Filler is installed against existing concrete at columns and against adjacent structures or flat work before the placement of the subsequent concrete. For floors, paving's and runways it is installed 1/2 " below the elevation of the concrete surface. When the joint is to be filled later to the surface elevation with a proper sealant. If using a polysulphide type sealant, use a masking tape (polyethylene tape) to separate the expansion joint filler from the sealant

The dowel bar is used to reserve alignment of adjacent sections of concrete slab. CIL PolyBoard is fabricated to receive dowel bars and the entire joint assembly is placed in position before pouring concrete

HEALTH & SAFETY

CIL PolyBoard is not associated with any health hazards in normal use. It catch fire if exposed to flame or other source of ignition.

OUR PRODUCT RANGE

RocSeal PS 201- a two component, gun and pouring grade, polysulphide expansion joint sealant.

RocSeal ER- Epoxy resin sealant for low movement joints in heavy duty flooring.

RocSeal PU200- Heavy duty, cold applied polyurethane pavement sealant

CIL1200 Silicone- Multi-purpose, high modulus, anti-fungus silicone sealant.

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PRODUCT DATA SHEET



CIL PolyRoad

Polyethylene backing rod closed cell

PRODUCT DESCRIPTION

CIL PolyRod is a flexible polyethylene foam nonabsorbent and chemically inert closed cell. CIL Polyrod is designed for flexible and compressible backing material for elastomeric and cold applied joint sealants.

TYPICAL APPLICATION

CIL PolyRod is generally used for expansion, isolation, control and coping joints, highway and pavement joints, log home chinking curtain walls, perimeter of window and door frames, etc.

ADVANTAGES

- ▶ Non staining
- ▶ Rat proof
- ▶ Chemically inert
- ▶ Lightweight and compressible.
- ▶ Can easily be accommodated in joints of varying widths.
- ▶ Does not allow the absorption of moisture or air.
- ▶ Nonabsorbent surfaces eliminates three dimensional adhesion of the elastomeric sealant
- ▶ Highly resilient. Accommodates dynamic joints
- ▶ Closed cell
- ▶ No bond to most sealant
- ▶ Compatible with cold applied sealants
- ▶ Different rod diameters
- ▶ Good water resistance
- ▶ Odorless
- ▶ Provide film backing for joints subject to hydrostatic pressure

PACKAGING & STORAGE

CIL PolyRod is supplied in 6mm- 250m, 10mm - 250m , 15mm-100m, 20mm-50m, 25mm-50m, 30mm-50mm, 40mm- 2m, 50mm-2m. Store in clean, cool, and dry areas protected from direct sunlight. Unopened boards may be stored for up to 12 months

TYPICAL PROPERTIES

Type	Closed cell polyethylene foam
Color	White and grey
Density:	0.032±0.003
Elongation	150 %
Tear strength	> 2 N/mm
Compressive strength	> 0.03 N/mm ²
Temp resistance	-40 to +70°C
Water absorption	< 0.6 g/cm ²
Tensile strength	> 0.3 Mpa

DIRECTION OF USES

When installing CIL backing rod, be careful not to puncture the surface skin. When used to foam movement joints in in-situ concrete, CIL PolyRod can be positioned next to the shuttering before casting or can be bonded to the adjacent concrete with an appropriate adhesive. The soft board must be on an external faces by a compatible weather resistant sealant.

Road diameter should be approximately 25% more than that of the joint width. During installation avoid excessive longitudinal stretching of the rod. CIL Polyrod up to a thickness of 25mm can be cut using a stable knife and a guide bar for a straight edge after cutting. Boards thicker than 25mm should be cut with a portable electric circular saw

HEALTH & SAFETY

CIL Polyrod is not associated with any health hazards in normal use. It catch fire if exposed to flame or other source of ignition

OUR PRODUCT RANGE

RocSeal PS- a two component, gun and pouring grade, polysulphide expansion joint sealant.

RocSeal ER- Epoxy resin sealant for low movement joints in heavy duty flooring.

RocSeal PU200- Heavy duty, cold applied polyurethane pavement sealant

RocSealMastic-Single Component, non- slump rubberized bitumen sealant.

RocSeal AC-Single component,Non- slump acrylic based Joint sealant.

CIL PolyBoard- Flexible Bitumen impregnated compressible fibre filler board

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PRODUCT DATA SHEET

RocSeal PS Primer 1&2

Low viscosity primers for Polysulphide sealants

**PRODUCT DESCRIPTION**

RocSeal PS Primers are used when preparing porous and non-porous surfaces prior to the installation of polysulphide based sealants.

TYPICAL APPLICATION

RocSeal PS Primer No. 1 is used for substrates such as concrete, brickwork, stonework, asbestos and timber. Due to the highly penetrating nature of RocSeal PS Primer No. 1, staining may occur on some surfaces. It is therefore advisable to check a small sample area prior to priming the full area.

RocSeal PS Primer No. 2 is used for non-porous substrates such as glass, ceramics and stainless steel. This is designed to enhance to bond where penetration into the substrate is not achievable.

COVERAGE RATE

Consumption varies according to porosity and wastage. On concrete RocFlex PS201 Primer No. 1 will cover 13m² per liter. For estimation purposes, 1 litre is usually sufficient for 7 no. 4 liter units of RocSeal PS201 gun or pouring grade.

PACKING AND STORAGE

RocSeal PS Primers are solvent based and as such should be stored in cool shaded areas of max. Temperature 35°C. Shelf life will be twelve months. The products are supplied in 1-litre units.

TYPICAL PROPERTIES

Appearance	Thixotropic paste
Density	1.0±0.05g/cc
Drying time	30 mins
Application temp	5 to 45 °C
Shelf life	12months
Yield per ltr/RM	6x6 --400 RM
	6x10--325RM
In mmxmm	10x10--240RM
	15x15--160RM
	15x20--145RM

DIRECTION OF USES

Joint faces to be primed must be completely dry and free of dirt, dust, and cement laitance and all other deleterious substances. This is best achieved by grit or sand blasting. Wire brushing may also be used followed by blowing out with compressed air. It is important to ensure that the joint arises are structural sound as failure of the joint may occur in this area.

Only decant as much primer as will be used on that day. Use clean containers and a clean brush. Liberal-ly apply the primer onto the joint arises. Allow this to become tack free before applying the RocFlex PS201 polysulphide sealant. If the joint is not sealed within 3-4 hours re-priming may be required

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested, seek medical attention.

OUR PRODUCT RANGE

RocSeal PS- a two component, gun and pouring grade, polysulphide expansion joint sealant.

RocSeal ER- Epoxy resin sealant for low movement joints in heavy duty flooring.

RocSeal PU200- Heavy duty, cold applied polyurethane pavement sealant

RocSealMastic -Single Component, non- slump rubberized bitumen sealant.

RocSeal AC-Single component , Non- slump acrylic based Joint sealant.

CIL Poly Rod--Polyethylene backing rod closed cell

CIL Poly Board--Flexible Bitumen impregnated compressible fiber filler board

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PRODUCT DATA SHEET

RocSeal PU200

A Gun grade two component, polyurethane sealant

PRODUCT DESCRIPTION

RocSeal PU200 is a two component polyurethane sealant which, when mixed cures to form an elastic rubber. It gives excellent adhesion to glass, metals, concrete, masonry, wood and plastics and is capable of withstanding repeated extension and compression without loss of adhesion.

RocSeal PU200 gives outstanding resistance to deterioration by weathering, oils, hydrocarbons, fuel, water, ultra violet, ozone etc and remains unaffected by most alkalis and dilute acids.

ADVANTAGES

- ▶ Cold applied, non-biodegradable
- ▶ Excellent chemical resistance to jet fuels & Skydrol
- ▶ High movement accommodation
- ▶ Excellent UV resistance
- ▶ Available in pouring grade
- ▶ Excellent adhesion to most surfaces
- ▶ Outstanding weathering resistance
- ▶ None staining.

FIELDS OF APPLICATION

RocSeal PU200 is generally used for sealing joints in concrete paved areas, carriageways, factories, docks and airfield runways. It is particularly suited to expansion joints, compression joints, structural joints and joints in in-situ concrete.

PACKAGING & STORAGE

RocSeal PU200 is available in Pouring Grade in 4 liter units. Shelf life will be 12 months when stored in shaded warehouses at less than 35°C.

TYPICAL PROPERTIES

Mixes Form	Thixotropic paste
Toxicity:	Non toxic
Fresh Density:	1.40kg/m ³ ±0.05
Shore A Hardness ASTM C661	25±0.5
Tack Free time	24Hrs
Full cure	7 days
Movement Accommodation factor	25 %
Chemical resistance ASTM D543	Resistance to mild acids, alkalis, fuels, Grease, petrol etc.
Colors:	Grey and White
Storage:	12 months

DIRECTIONS FOR APPLICATION

Joint Preparation:

Porous- Concrete surfaces should be clean and dry. Any loose particles should be removed with a wire brush followed by blowing out with compressed air. If the surfaces are heavily contaminated with mould release or curing agents, it may be necessary to mechanically abrade them.

Priming: Apply a single coat of primer by brush in accordance with the instructions on the tin. Allow the primer to dry for approximately 30 minutes. If sealant is not applied within a further 2 hours, re-priming will be necessary.

Joint Fillers: Where applicable, a joint filler should be used to partially fill the joint in order to provide the correct depth of sealant. It is also necessary to provide a bond breaker between the filler and the sealant. A suitable material is closed cell cross-linked foam polyethylene strip. Joint arises must be repaired using RocBuild NF.

Masking Tape: Masking tape may be used to improve the neatness of the finished seal by protecting the face edges of the joint. This should be removed immediately after the RocSeal PU200 has been applied.

Mixing: Stir the contents of Pack B and add to pack a, use a slow speed electric mixer fitted with a suitable paddle to stir until a homogenous mix is obtained. Ensure that the mixing paddle is taken round the sides of the tin so that every particle of material is thoroughly mixed. A palette knife should be used to scrape round the inside of the tin to return any unmixed sealant to the mass of material.

Application: Minimum depth should be 10mm, in the ratio of 1:1. Pour or gun immediately into the primed joint. Keep the sealant between 3mm (summer) and 6mm (winter) below the wearing surface.

Tooling & Finishing: To obtain a smooth finish, tool the sealant with a spatula wet with diluted detergent. This breaks air bubbles and exposes any air pockets present whilst compressing the sealant and promoting adhesion to the joint sides.

HEALTH & SAFETY

RocSeal PU200 .Harmful by inhalation, if swallowed and in contact with skin. Wear suitable gloves and eye/face protection. Do not breathe fumes. Keep away from sources of ignition. Seek immediate medical attention if in contact with eyes or ingested

OUR PRODUCT RANGE

RocSeal PU301- a two component, gun and pouring grade, poly sulphide expansion joint sealant.

CIL1200 Silicone- Multi-purpose, high modulus, anti-fungus silicone sealant.

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PRODUCT DATA SHEET

RocSeal AC

A single Component Acrylic based Sealant



PRODUCT DESCRIPTION

RocSeal AC is a single component superior quality, high performance acrylic based sealant. The sealant on curing forms a pliable flexible seal with negligible shrinkage. RocSeal AC is primarily intended for internal & external pointing applications. Polyseal AC can be used in both horizontal and vertical applications. RocSeal AC gives outstanding resistance to deterioration by weathering, oils, fuel, water, etc and remains unaffected by most alkalis and dilute acids.

TYPICAL APPLICATION

Joints and cracks on concrete, brickworks and masonry, acoustical sealing in internal walls, ceilings and floors to reduce sound transmission class of partition walls. Perimeter sealing around window and door frames. Curtain wall construction, sealing of composite and lightweight cladding panels. And cracks where greater flexibility or movement is required.

COVERAGE RATE

- ▶ Non-biodegradable
- ▶ Good chemical resistance
- ▶ Excellent adhesion to most building substrates.
- ▶ Can be used without the use of primer in new substrates
- ▶ Easy to apply, No mixing required
- ▶ High movement accommodation and greater flexibility
- ▶ Good resistance to water and water vapour.
- ▶ Fast drying.
- ▶ Odorless
- ▶ Outstanding weather resistance
- ▶ Non staining.

PACKING AND STORAGE

RocSeal AC is available in 25kg pail. Shelf life will be 12 months when stored in shaded warehouses at less than 35°C

TYPICAL PROPERTIES

Color	White and Grey (other Color on request)
Density [g/cc]	1.5±0.05
Viscosity	Thixotropic paste
Shrinkage	Negligible
Application temp. @25°C	+5 to 45°C
Shrinkage %	< 15
Full cure	7 days
Storage:	12 months
Chemical resistance	Mild acid, alkalies, fuels, oil, sea water, urea etc
Cracking and Chalking after heat ageing @70°C	No deterioration
UV resistance @300 hrs	No deterioration
Initial Cure	24hrs
Elongation	> 300%
Water portability WRC	Passes

DIRECTION OF USES

Joint Preparation: Joint edges and all cracks must be clean, dry and free from oil, grease, loose laitance, cement laitance and other contaminants which may affect the adhesion. A thorough wire brushing.

Grinding, or solvent cleaning may be required to expose a clean and sound substrate. When applied on glazed surfaces like ceramic or terrazzo tiles or

porcelain enamel joint surfaces, the glaze should be removed by abrading with sandpaper or wire brush. Usually priming is not required, however on highly absorbent surfaces, use RocBond AR as primer.

The primer shall be applied by a brush in a thin coat application and shall be allowed to become tack free prior to the application of the sealant. For obtaining a clean and neat finish, masking tape shall be applied on both the edges of the joint before the application of the primer or the mastic. On wood it is important that the sealant is applied to the base surface.

Joint Fillers: Where applicable, a joint filler should be used to partially fill the joint in order to provide the correct depth of sealant. It is also necessary to provide a bond breaker between the filler and the sealant. A suitable material is closed cell cross-linked foam polyethylene strip. Joint arises must be repaired using RocBuild NF.

Masking Tape: Masking tape may be used to improve the neatness of the finished seal by protecting the face edges of the joint. This should be removed immediately after the RocSeal AC has been applied application can be by pouring, gun or trowel according to the grade used. Extrude the sealant firmly into the joint by maintaining an even pressure on the trigger of the gun. Ensure complete filling of the joint to avoid slumping. Clean the gun nozzle occasionally to avoid contamination.

Tooling & Finishing: To obtain a smooth finish, tool the sealant with a spatula. Do not use diluted detergent.

Overcoating: Dispersion based paints can be applied after 24 hours of application of the mastic. Solvents based paints can be painted after 7 days of application of the mastic

HEALTH & SAFETY

RocSeal AC contains a manganese compound that is harmful if swallowed or if in prolonged contact with skin and eyes. Wash hands thoroughly with soap and water after use.

OUR PRODUCT RANGE

RocSeal PS- a two component, gun and pouring grade, polysulphide expansion joint sealant.

RocSeal ER- Epoxy resin sealant for low movement joints in heavy duty flooring.

RocSeal PU200- Heavy duty, cold applied polyurethane pavement sealant

CIL1200 Silicone- Multi-purpose, high modulus, anti-fungus silicone sealant.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local or Products representative or visit our website for current technical data and instructions.

Disclaimer

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A close-up photograph of a person's hands and feet working on a light-colored floor. The person is wearing bright yellow gloves and blue work shoes. They are using a tool, possibly a scraper or trowel, to smooth or finish the floor surface. The background is a blurred view of the floor being worked on.

FLOORING SOLUTIONS

PRODUCT DATA SHEET



CIL Aggregates

Selected hardwearing aggregates for TufFloor & TufGrout Products

PRODUCT DESCRIPTION

CIL Aggregates are carefully selected mineral aggregates used in conjunction with RocFloor coatings to produce anti-slip surfaces & with TufGrout systems for large volume and reduced need of hydration applications.

FIELDS OF APPLICATION

In RocFloor applications: Loading bays, vehicle and pedestrian entrances, ramps, stair treads, wet or oily work areas in all types of industrial premises.

The average consumption should be min. 0.5kg/m² Always keep a sagging of the sand which can especially happen at uneven substrates or where the resin got applied in thicker layers. Where epoxy resin got applied in multiple layers, just the last layer has to be broadcasted. In RocGrout applications: large volume grouting applications under machinery, generators, pumps etc. Also for concrete repair applications as a micro-concrete.

ADVANTAGES

- ▶ Anti-Skid finishes- produces safer work areas.
- ▶ Chemically inert- non-metallic, non-rusting
- ▶ Factory graded, oven dried and packed- for consistent, reproducible quality.
- ▶ Moh's hardness greater than 7- extremely
- ▶ hardwearing and abrasion resistant.

COVERAGE

Can be varied to suit individual needs

TYPICAL PROPERTIES

Coarse	Medium, coarse Extra fine
Color	N White & Gray
Consumption	Min 0.3kg/m ² * for antiskid floor
Packing	20kg paper/plastic
Storage	12 months

DIRECTIONS FOR USE

For information on the application of specific products, see individual Technical Data Sheets.

Coatings: After preparation, apply the first coat. Before cure has taken place, scatter the selected CIL Aggregate at the desired rate using a sprinkler box or colander. Allow coating to cure overnight. Then sweep off excess or unbounded aggregate. Apply the top coat(s) of the relevant RocFloor coating to seal in the aggregate.

Toppings: After application and spike rolling of the RocFloor smooth HD system, broadcast the selected CIL Aggregate until full coverage is achieved and no base coat material is visible.

Allow to cure overnight. Then brush off or vacuum clean excess unbounded aggregate. The surface is now ready for sealing with the relevant TufFloor coating.

RocFloor applications: Surface preparation and application details are specified in the relevant product literature. CIL Coarse Aggregate is added to the mix prior to water addition. No extension to normal mixing times is required.

OUR PRODUCT RANGE

RocFloor SB100 – solvent based epoxy floor coating/dexel emulsion resistant low range of chemicals.

RocFloor MH, EH & QH- Mineral & Emery based dry shake floor hardener.

RocFloor Silicate - Sodium silicate based concrete floor hardener and dust proof.

RocFloor EP Primer- Epoxy resin based floor sealer and bonding agent.

RocCoat SS- water repellent silane siloxane for concrete and masonry.

RocCoat NT- Non-toxic Epoxy coating.

Non-slip Aggregates- carefully selected, clean dry and graded hardwearing aggregates non-slip surfaces.

HEALTH & SAFETY

CIL Aggregates may contain minimal amounts of respirable silice. Maximum exposure limit: 0.1mg/m³ for 8-hour TWA. If unable to control dust emission below the recommended limits, approved respiratory protection must be worn. For individual products mentioned, see separate Technical Data Sheets.

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PRODUCT DATA SHEET



RocFloor SC

Epoxy based Chemical and brasion resistant floor screed

PRODUCT DESCRIPTION

RocFloorSC is a three component (Base, Hardener & Filler) solvent-free epoxy, non-shrink, epoxy resin based mortar screed. Epoxy screed has excellent mechanical and abrasion resistance properties and is resistant to a wide variety of chemicals. This system is designed to provide a heavy duty topping for industrial floors. The screed can be applied in thicknesses of minimum 4mm.

TYPICAL APPLICATION

RocFloorSC is a heavy duty epoxy floor screed which gives a tough, good Abrasion, chemical and impact resistant screed for Industrial and similar Floors. RocFloorSC can be used for flooring, patching works, repairing concrete edges, linings, Garage, airport maintenance area, concrete joint dressings

ADVANTAGES

- ▶ Ware houses & workshops
- ▶ Dairies & food processing plants
- ▶ metal treatment plants
- ▶ Substations & battery rooms Edges can be repaired
- ▶ Can be easily over coated with any epoxy or polyurethane coating
- ▶ Excellent abrasion resistance and adhesion to all substrate, Chemical plants & factories heavy engineering industrial floors
- ▶ Anti-skid finish
- ▶ Excellent resistance to impact
- ▶ Excellent chemical resistance
- ▶ Easy & quick to apply
- ▶ Chemical resistance for wide range of acids, alkalis and industrial chemicals

PACKAGING & STORAGE

RocFloor SCis supplied in 10litre kit, factory quality controlled and pre-weighed units. Unopened units should be stored in shaded warehouses at less than 30°C; shelf life 12 months from date of manufacturing.

TYPICAL PROPERTIES

Mixed Form	Semi Dry mortar
Pot life	30-40mins @30oC
Service temp:	+5°C to 65°C
Density@ 25°C ASTM D1475	2.2gm/cc±0.05
Drying Time	Min 6 hours
Full cure@ 25°C	7 Days
Tensile Strength 6319 -7 BS	Min 15 N/mm²@7 days
Flexural strength 6319 -3 BS	Min 25 N/mm²@ 7 days
Bond Strength ASTM D4541	Min 15N/m²
Compressive Strength BS 6319 -2	Min 70N/mm²
Chemical resistance	Sulphuric acid 15% Nitric acid 10% u Sodium Hydroxide 50%

DIRECTION OF USES

Surface preparation: For concrete and other cementitious substrates, the substrate should be clean, structurally sound and dry. Damp proof membranes should be installed and intact. Shot blasting or similar is preferred on all smooth or dense surfaces. preparation plays a major role in determining the life of any floor coating. Thorough acid etching should be considered when the above cannot be used.

Priming: Prime all surfaces with RocFloor EP Primer at rate of 5-6 m² per litre. This ensures excellent adhesion for the following coats.

Mixing: mix part A and B separately for 2 minutes using a heavy duty 300-400rpm slow speed drill fitted with a mixing paddle. Pour Part B and Part A into a separate container and stir well for 1-2minutes. Add Part C slowly to the mixed base and hardener and continue mixing for further 2- 3 minutes until a uniform and homogenous mix. Scrape the sides , edges and the bottom of the mixing container using a spatula, and continue mixing for a further 2 minutes till a homogeneous lump free consistency is achieved. Application The epoxy screed shall be applied immediately after mixing within its working time. Discharge the mixed mortar from the mixer and place on the floor when the primer is still in a tacky condition. Spread and compact the mortar with a wooden trowel to get a uniform thickness and complete the application with a steel trowel.

HEALTH & SAFETY

RocFloor SC Harmful by inhalation, if swallowed and in contact with skin. Wear suitable gloves and eye/face protection. Do not breathe fumes. Keep away from sources of ignition. Seek immediate medical attention if in contact with eyes or ingested Watch point: All movement joints must be carried through the tiles.

OUR PRODUCT RANGE

Rocfloor FC200 - solvent based epoxy Floor coating and excellent resistant to a wide range of chemicals..

RocFloorMH,EH&QH- Mineral & Emery based dry shake floor hardner.

RocFloorSilicate - Sodium silicate based concrete floor hardener and dustproofe.

RocFloor EP Primer- Epoxy resin based floor sealer and bonding agent.

RocCote SS- water repellent silane siloxane for concrete and masonry.

RocCote NT- Non toxic Epoxy coating. Non-slip Aggregates- carefully selected, clean dry and graded hardwearing aggregates non-slip surfaces.

Non-slip Aggregates- carefully selected, clean dry and graded hardwearing aggregates non-slip surfaces

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PRODUCT DATA SHEET



RocFloor SB100

Solvent based Epoxy Resin Floor paint.

PRODUCT DESCRIPTION

RocFloor SB100 is a two component solvated epoxy resin based floor and wall coating. To provide a durable, easily cleaned, high build, hard wearing floor finish. Contain a hydrocarbon solvent to dissolve the epoxy resin and help it to penetrate into the surface of the concrete, encourage easy flowing application and form a uniform film with good coverage

TYPICAL APPLICATION

RocFloor SB100 is designed for application to light to medium duty warehouses, Factory floors, aircraft hangars, light industrial storage and assembly areas, maintenance areas, Food and pharmaceutical industries etc.. Solvent based epoxy resin floor paints are fast curing and can generally provide good abrasion and chemical resistance. Historically this type of floor paint material was commonly and widely used to give the most economic and effective floor painting solution.

ADVANTAGES

- ▶ Solvated and hence better coverage and easy to apply.
- ▶ Fully sealed surface- dustproof and easy to clean.
- ▶ Available in wide range of colors, Easy to apply.
- ▶ Tough impervious finish- resists oils, grease and chemicals.
- ▶ Can be used with Non-Slip Aggregates- provides safe anti-skid finishes.
- ▶ Excellent chemical resistance- when in contact with generally cleaning acids & alkalis.
- ▶ Non tainting, solvent free -suitable for use in food processing and preparation areas, clean rooms etc.

PACKAGING & STORAGE

RocFloor FC100 is supplied in 5 litre and 15 litre factory quality controlled and pre- weighed units. Unopened units should be stored in shaded warehouses at less than 30oC; shelf life 12 months months from date of manufacturing.

TYPICAL PROPERTIES

Appearance :	Clear pale liquid.
Pot life	30-40mins @30°C
Service temp:	+5°C to 65°C
Density@ 25°C	1.20±.05gm/cc
Application Temp:	30+/-10°C
Drying Time	Min 6 hours
Bond strength @ 7 days	Greater than the cohesive strength of concrete
Over Coat time	8-24hours
Tack Free time	2-4Hours
Solid content (by weight)	Min 60%
Chemical resistance	Resistance to mild acids, alkalis ,fuels ,grease etc

DIRECTION OF USES

Surface preparation: For concrete and other cementitious substrates, the substrate should be clean, structurally sound and dry. Damp proof membranes should be installed and intact. Shot blasting or similar is preferred on all smooth or dense surfaces. Surface preparation plays a major role in determining the life of any floor coating. Thorough acid etching should be considered when the above cannot be used.

Priming: Prime all surfaces with RocFloor EP Primer at rate of 5-6 m² per litre. This ensures excellent adhesion for the following coats.

Mixing: Pour Part A & Part B into a suitable mixing vessel and mix for 3-4 minutes using a slow speed drill and spiral mixing head. Ensure the mixed material achieves a uniform colour and the mixed material is lump free

Application: Apply first coat on the prepared surface by spray, brush or roller ensuring surfaces are evenly covered. Avoid pinholes by applying second coat at right angles to the first Anti-slip finish: Apply First coat of RocFloor FC100 on to the prepared surface. While the coating is still tacky, broadcast specified grain size on to the surface. Apply the top coat after removing the excess aggregates.

GENERAL INFORMATION

Cleaning: Clean all equipment and tools with CIL Thinner. To achieve gloss finish take care of porosity and high humidity of the surface. For Anti-skid surfaces Use CIL grades aggregates.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention

OUR PRODUCT RANGE

Rocfloor FC200 - solvent based epoxy Floor coating and excellent resistant to a wide range of chemicals..

RocFloorMH,EH&QH- Mineral & Emery based dry shake floor hardner.

RocFloorSilicate - Sodium silicate based concrete floor hardener and dustproof.

RocFloor EP Primer- Epoxy resin based floor sealer and bonding agent.

RocCote SS- water repellent silane siloxane for concrete and masonry.

RocCote NT- Non toxic Epoxy coating. Non-slip Aggregates- carefully selected, clean dry and graded hardwearing aggregates non-slip surfaces.

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RocFloor MH

Mineral based dry-shake floor hardener

PRODUCT DESCRIPTION

RocFloor MH is a factory blended, quality controlled powder consisting of special hardwearing mineral aggregates, Portland cement and chemical additives. When applied as a dry shake application to concrete RocFloor MH gives an extremely hard wearing, abrasion resistant and durable floor which will resist the ingress of aggressive liquids. RocFloor MH will trowel easily into the surface of fresh wet concrete and will cure monolithically, thereby alleviating the problems normally associated with thin granolithic toppings e.g. curling, cracking, shrinkage etc. RocFloorMH combines with free water, cement and fine aggregates at the surface of the vibrated concrete to reduce the water/cement ratio and to increase density and compressive strength.

ADVANTAGES

- ▶ Economical & supplied ready to use.
- ▶ Excellent abrasion & slip resistance, reduces dusting.
- ▶ Forms monolithic bond
- ▶ No stain, non-oxidizing & non metallic
- ▶ Reduced penetration of aggressive liquids
- ▶ Reduces maintenance costs

FIELDS OF APPLICATION

RocFloor MH is ideally suited for use on all industrial floor areas subjected to heavy traffic i.e. power stations, abattoirs, loading bays, car parks, warehouses, engineering workshops, refineries, factories, agricultural buildings etc.

COVERAGE RATES

RocFloor MH should be applied at the rate of 5-7 kg/m². Along bay edges and joints apply at 0.5-1.0 kg per linear meter in strips of 80-100mm width.

TYPICAL PROPERTIES

Component	Single
Color	Grey and beige
Form	Powder
Hardness (Mohs)	Min 7 (Aggregate)
Bulk Density	1.50gm/cc +/- 0.05
Abrasion resistance	250% improvement vs plain concrete
Adhesion to concrete	Monolithic bond
Indentation resistance BS 8204	< 2mm

DESIGN CRITERIA

In accordance with ACI 201-2R77 & 302- 1R-89 recommendations, the concrete should have a minimum cement content of 320 kg/m³ and a water/cement ratio between 0.4-0.5. There should be no segregation or bleeding and the workability at site should ideally be 75mm slump. Micro-silica is not recommended to be used and air contents should be controlled to a maximum of 3%.

The use of RocFlow concrete admixtures is recommended to produce the required concrete performance characteristics. Place base concrete in accordance with good concrete practice; particular care should be taken at bay edges and corners to ensure good compaction. Vacuum de-watering is not recommended

DIRECTIONS FOR APPLICATION

Concrete placement: The concrete should be placed, leveled and compacted following standard practices. The surface is then wooden floated to leave the surface open ensuring that there is no bleed water. RocFloor MH is normally applied 30-40 minutes after concrete placement. This time varies according to ambient temperatures. The surface must be neither too wet nor too dry and will normally allow foot traffic leaving imprints of no greater than 3mm.

RocFloor MH is applied in three applications.

Initial application: RocFloor MH should first be applied along the bay edges and where expansion and contraction joints are to be located. Apply at 0.5-1.0kg per linear meter in strips of 80-100mm width.

Second application: Using raised trestles to span the slab, broadcast the first two thirds of the Roc-Floor MH by hand at a uniform rate. Allow to darken by absorption of moisture from the base concrete; lightly wooden float this material into the concrete. Care should be taken to ensure the surface is not overworked.

Third application: When the first has been troweled in, broadcast the remaining one third of the RocFloor MH at right angles to the first. Allow to absorb moisture and float as above. When the sheen begins to leave the surface, use a power float to close the pores and completely level the surface. If the floor is to be finished by hand trowel ensure sufficient masons are available to complete the work prior to concrete hardening.

Curing: Curing should be carried out immediately after the final troweling operation has been completed. Cover with polyethylene sheets and water cure for 48 hours. Thereafter curing may be done by using TufCure CL or by conventional means. Protect all surfaces from traffic until the surface has completely hardened or full strength has been reached.

Subsequent coatings: These may be applied over the cured surface for chemical resistance, aesthetics or demarcation

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RocFloorSilicate - Sodium silicate based concrete floor hardener and dust proofer.

RocFloor EP Primer- Epoxy resin based floor sealer and bonding agent.

RocCote SS- water repellent saline siloxane for concrete and masonry.

RocCote NT- Nontoxic Epoxy coating.

Non-slip Aggregates- carefully selected, clean dry and graded hardwearing aggregates non-slip surfaces.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

PACKAGING & STORAGE

RocFloor MH is supplied in 25kg bags and should be stored in dry, shaded warehouses in the same conditions as cement. When stored in dry conditions shelf life will be 12 months.

WATCH POINT

Application of RocFloor MH should not take place in direct sunlight when hot & drying winds are blowing. This will avoid the surface drying out whilst the concrete is still wet. This often results in cracking.

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PRODUCT DATA SHEET

RocFloor FC200

Solvent Free, High performance Epoxy Floor Coating

PRODUCT DESCRIPTION

RocFloor FC200 is a two component solvent free epoxy resin based floor and wall coating. To provide durable, easily cleaned, high build hard wearing floor finish.

FIELDS OF APPLICATION

Warehouses, Factory floors, aircraft hangars, light industrial storage and assembly areas, maintenance areas, garages and workshops. Food and pharmaceutical industries. Parking decks, garages and car wash areas.

ADVANTAGES

- ▶ Solvent free, hence odorless and can be applied in confined spaces.
- ▶ Fully sealed surface- dustproof and easy to clean.
- ▶ Available in wide range of colors, Easy to apply.
- ▶ Tough impervious finish- resists oils, grease and chemicals.
- ▶ Can be used with Non-Slip Aggregates- provides safe anti-skid finishes.
- ▶ Excellent chemical resistance-when in contact with generally cleaning acids & alkalis.
- ▶ Non tainting, solvent free -suitable for use in food processing and preparation areas, clean rooms etc.
- ▶ Thick coat build up-high level of protection and durability.

COLOR RANGE

Grey, White and other colors available to special order requiring minimum quantities

COVERAGE

4-6 m²/liter depending on surface texture and roughness.

TYPICAL PROPERTIES

Appearance:	Clear pale liquid.
Pot life	30-40mins @30°C
Service temp:	+5°C to 65°C
Density@25°C	1.40±.05gm/cc
Application Temp:	30+/-10°C
Drying Time	Min 6 hours
Tensile Strength BS 6319-7	Min 15 N/mm ² @ 7 days
Flexural strength BS 6319-3	Min 35 N/mm ² @ 7 days
Bond Strength ASTM D4541	Min 1.5N/m ²
Compressive Strength BS 6319-2	Min 65N/mm ²
Chemical resistance	Resistance to mild acids, alkalis ,fuels ,grease etc

HEALTH & SAFETY

RocFloor FC200 contains epoxy resin and a polyamine adduct. Harmful by inhalation, if swallowed and in contact with skin. Wear suitable gloves and eye/face protection. Do not breathe fumes. Keep away from sources of ignition. Seek immediate medical attention if in contact with eyes or ingested watch point: All movement joints must be carried through the tiles.

DIRECTIONS FOR APPLICATION

Hand Surface preparation: For concrete and other cementitious substrates, the substrate should be clean, structurally sound and dry. Damp proof membranes should be installed and intact. Shot blasting or similar is preferred on all smooth or dense surfaces. Preparation plays a major role in determining the life of any floor coating. Thorough acid etching should be considered when the above cannot be used.

Priming: Prime all surfaces with RocFloor EP Primer at rate of 5-6 m² per liter. This ensures excellent adhesion for the following coats.

Mixing: Pour Part A & Part B into a suitable mixing vessel and mix for 3-4 minutes using a slow speed drill and spiral mixing head. Ensure the mixed material achieves a uniform colour and the mixed material is lump free.

Application: Apply first coat on the prepared surface by spray, brush roller ensuring surfaces are evenly covered. Avoid pinholes by applying second coat at right angles to the first Anti-slip finish: Apply First coat of RocFloor FC200 on to the prepared surface. While the coating is still tacky, broadcast specified grain size on to the surface. Apply the top coat after removing the excess aggregates.

GENERAL INFORMATION

Cleaning: Clean all equipment and tools with CIL Thinner.

To achieve gloss finish take care of porosity and high humidity of the surface.

For Anti-skid surfaces Use CIL grades aggregates.

PACKAGING & STORAGE

RocFloor FC200 is supplied in 5 liter and 15 liter factory quality controlled and pre- weighed units. Unopened units should be stored in shaded warehouses at less than 30°C; shelf life 12 months from date of manufacturing.

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PRODUCT DATA SHEET



RocFloor PU200

Polyurethane UV stable, two component car park deck Coating

PRODUCT DESCRIPTION

RocFloor PU200 is a two component UV stable high quality floor and wall coating. To provide a durable, easily cleaned, high build, hard wearing abrasion resistant system for external and internal floor coating

TYPICAL APPLICATION

Warehouses, Factory floors, aircraft hangars, Trafficable flat roofs, terraces and balconies, light industrial storage and assembly areas, maintenance areas, Food and pharmaceutical industries. Parking decks, garages and car wash areas.

ADVANTAGES

- ▶ UV resistant, hence recommended for external areas.
- ▶ Fully sealed surface- dustproof and easy to clean.
- ▶ Available in wide range of colors, Easy to apply.
- ▶ Tough impervious finish- resists oils, grease and chemicals.
- ▶ Can be used with Non-Slip Aggregates- provides safe anti-skid finishes.
- ▶ Excellent chemical resistance-when in contact with generally cleaning acids & alkalis.
- ▶ Non tainting, -suitable for use in food processing and preparation areas, clean rooms etc.

PACKAGING & STORAGE

RocFloor PU200 is supplied in 5 litre and 15 litre factory quality controlled and pre- weighed units. Unopened units should be stored in shaded warehouses at less than 30oC; shelf life 12 months months from date of manufacturing

COLOUR RANGE

Grey, White and other colors available to special order requiring minimum quantities.

TYPICAL PROPERTIES

Solid content	➤ 65 %
Color	Grey (Other color upon request)
Density	1.2 ±0.05 g/cc
Chemical resistance	Resistance to mild acid alkalis, oil grease, sea water .etc.
Abrasion resistance	< 50 mg
Touch dry	4-6 hours
Recoat able	24 hrs.
Application temp	+5 to +35
Service Temp:	- 20 to +75

GENERAL INFO

Clean all equipment and tools with CIL Thinner.
To achieve gloss finish take care of porosity and high humidity of the surface.
For Anti-skid surfaces Use CIL grades aggregates.

DIRECTION OF USES

Surface preparation: For concrete and other cementitious substrates, the substrate should be clean, structurally sound and dry. Damp proof membranes should be installed and intact. Shot blasting or similar is preferred on all smooth or dense surfaces. Surface preparation plays a major role in determining the life of any floor coating.
Thorough acid etching should be considered when the above cannot be used.

Priming: Prime all surfaces with Recolor PU Primer at rate of 5-6 m2 per litre. This ensures excellent adhesion for the following coats.

Mixing: Pour PartA & PartB in to a suitable mixing vessel and mix fo r3-4 minutes using a slows peed drill and spiral mixing head. Ensure the mixed material achieves a uniform color and the mixed material is lump free

Application: Apply first coat on the prepared surface by spray, brush roller ensuring surfaces are evenly covered .Avoid pinholes by applying second coat a tight angles to the first Anti-slip finish: Apply First coat of RocFloorPU200on to the prepared surface. While the coating is still tacky, broadcast specified grain size on to the surface.Apply the top coat after removing the excess aggregates.

HEALTH & SAFETY

RocFloor PU200 contains epoxy as with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention if in contact with eyes or ingested.

OUR PRODUCT RANGE

Rocfloor FC200 - solvent based epoxy Floor coating and excellent resistant to a wide range of chemicals..

RocFloorMH,EH&QH- Mineral & Emery based dry shake floor hardner.

RocFloorSilicate - Sodium silicate based concrete floor hardener and dustproof.

RocFloor EP Primer- Epoxy resin based floor sealer and bonding agent.

RocCote SS- water repellent silane siloxane for concrete and masonry.

RocCote NT- Non toxic Epoxy coating. Non-slip Aggregates- carefully selected, clean dry and graded hardwearing aggregates non-slip surfaces.

Non-slip Aggregates- carefully selected, clean dry and graded hardwearing aggregates non-slip surfaces.

Rocfloor SB100 - solvent based epoxy Floor coating and excellent resistant to a wide range of chemicals..

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A close-up photograph of a person's arm and hand using a trowel to apply grey grout into the joints of light-colored square tiles. A bucket of grout is visible on the right side of the frame. In the upper left background, a spirit level is placed on the floor to ensure the tiles are level. The scene is brightly lit, showing the texture of the grout and the smooth surface of the tiles.

TILING & GROUTING

Technical Data Sheet - TDS



CHEMCON

CHEMFIX LFT

High Performance Flexible Mortar
for Large Format Tiles

PRODUCT DESCRIPTION

CHEMFIX LFT is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D**.

APPLICATION AND USAGE

CHEMFIX LFT can be used for laying large format extremely vertified tiles, and for laying tiles on heated floors, terraces, balconies, cement and stone tiles.

CHEMFIX LFT is suitable for gypsum, an hydrate substrates, and heavy traffic areas.

Due to very high slip resistance it can be used for levying large and heavy tiles on vertical surfaces.

CHEMFIX LFT should not be used such as: on concrete subject to high shrinkage, on walls and floors subject to strong movement or vibration (wood, fibre-cement, etc.) on metal surfaces. Do not use for moisture-sensitive stone (green marble, some limestone and some granite. Large-and-heavy-tile mortars are not designed to correct uneven floors.

Note: Substrates must be flat and level before the installation of large-format tile.

ADVANTAGES

- ▶ Easy workability
- ▶ No slump for large-format and heavy tile
- ▶ For thicker bond coats from 2.5 to 12 mm
- ▶ Excellent adhesion to many substrates.
- ▶ For installation of interior/exterior residential/commercial floors, walls and ceilings.
- ▶ A smooth and creamy consistency for easy application
Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be load bearing, dry, clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of **Roc-Bond AR** prior to application of tiles. Concrete should be at least 3 months old, unhydrated, substrates must be primed with **RocBond AR**

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Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX LFT**. Mix thoroughly to a thick and creamy consistency and leave for 4-5 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX LFT** to clean water 6.5 liters of water for 20 kg of **CHEMFIX LFT** for vertical surfaces and 8.5 litres of water for 20 kg of **CHEMFIX LFT** for Horizontal surfaces .

Application: Apply CHEMFIX LFT with a notched trowel on to the surface with a suitable toothing. For exterior installation a thin layer of the mortar shall be spread on to the tile's backside. Then this tiles should be laid in during the open time of the adhesive mortar. Grouting can be star after 24 hours.

The typical properties given was with an ambient and material temperature of 24 +- 1°C and relative air humidity of 50%.

Please note that properties will vary subject to local conditions

Coverage:

Amount required: Tile size up to 30CM X 30CM (notch size 8mm to 12mm) 2.7 - 3.5kg,

Large Format tiles - Medium Bed 6Kg (Semi circular notches)

Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours

TRAFFIC PROTECTION: Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days.

TYPICAL PROPERTIES

Color	Grey and White.
Mix Ratio	6.5-8.5 liter of water for 20 kg
Pot Life	> 3 hours
Open time	> 20mts
Application temp:	+5 to 40 °C
Adjustability time	Approx. 45 mts
Compliance with: Adhesion according to ISO 13007-1 (N/mm ²) American ANSI, A 118.1, A 118.4	
ANSI A118.4 - shear strength, porcelain	> .38MPa at 28 day
ANSI A118.4 - shear strength, glazed wall tile	> 2.07 MPa at 28 day
ANSI A118.4 - shear strength, quarry tile to quarry tile	> 1.03 MPa at 28 day
Shelf life @23°C	12 months
VOC:	0.0g/l

PACKING & STORAGE

CHEMFIX LFT is supplied in white and Grey 20/ 25 kg bags. Store unopened bags in clean, cool, and dry areas. Protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months

HEALTH & SAFETY

CHEMFIX CLFFT contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

CIL WALL TILE ADHESIVE - Acrylic modified ready mixed wall tile adhesive paste

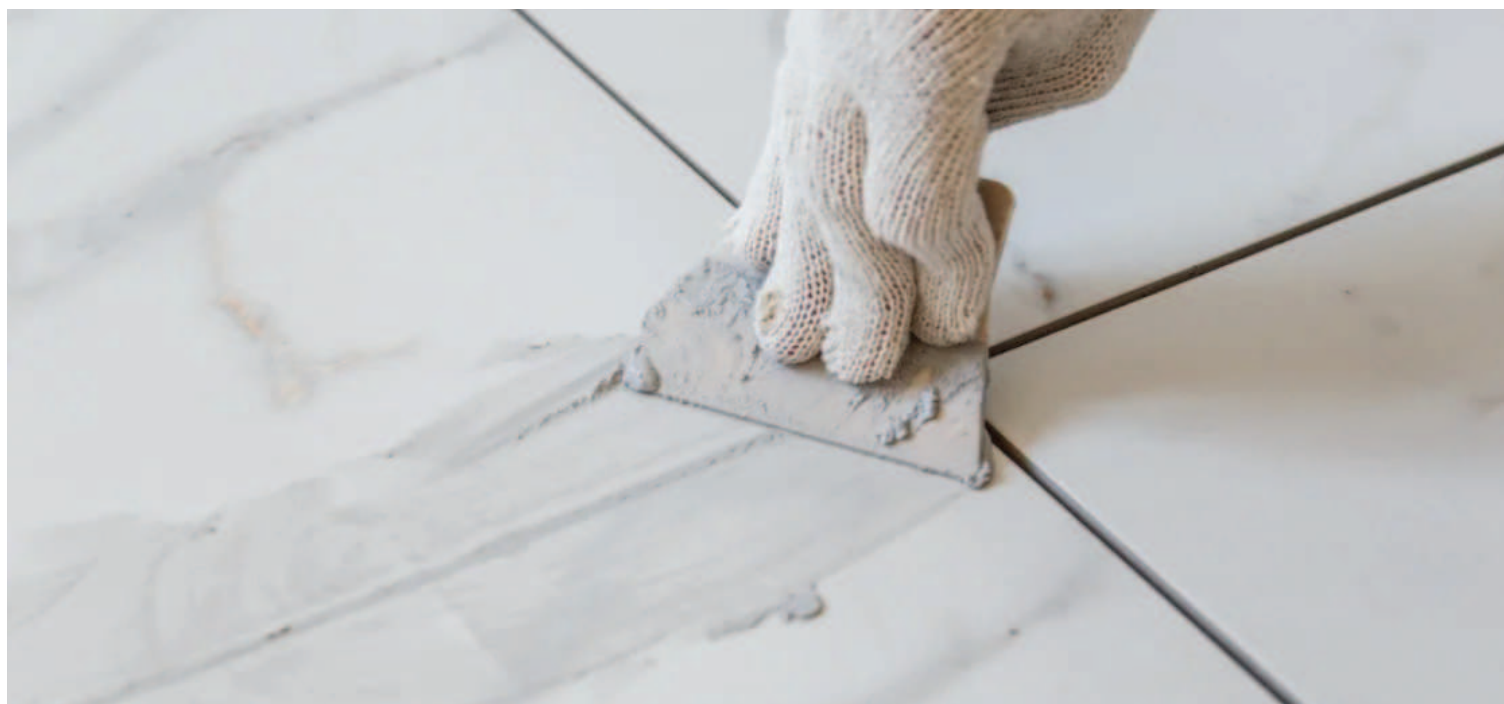
CIL Tile Grout - water resistant, polymer modified cement based grout.

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Technical Data Sheet - TDS



CHEMCON

CHEMCGROUT

Cement Based Joint Filler

PRODUCT DESCRIPTION

CHEMCGROUT is a hard wearing, water-resistant grout for filling joints from 1.5mm to 3mm for interior and exterior floors and walls. It is composed of precisely graded pure crystalline marble powder, a blend of special cements, water repellent materials, oxide colours and plasticizers. **CHEMCGROUT** is easily applied by hand and will give a water and weather resistant joint with no shrinkage.

APPLICATION AND USAGE

For grouting interior/exterior residential and commercial floor and wall surfaces in dry or wet conditions. For application in submerged conditions (swimming pools, spas, water features and fountains), For grouting dimensional stone, slate, granite, stone agglomerates and most types of ceramic, mosaic, quarry, brick paver, porcelain, glass and clay tiles.

CHEMCGROUT should not be used grout joints greater than (3 mm) wide. Do not use **CHEMCGROUT** in highly chemical and stain-resistant area

ADVANTAGES

- ▶ **CHEMCGROUT** can be used on materials such as wall and floor tiles, clinkers, mosaics etc, where joints do not exceed 3mm in width
- ▶ Water resistant
- ▶ Use internally or externally
- ▶ Resistant to cracking. No Sagging
- ▶ Self coloured ▶ Easy to Wash

DIRECTIONS FOR USE

Surface Preparation: Allow at least 24 hours between fixing tiles and grouting. Ensure that all tile joints and edges are free of excess tile fixing mortar and foreign matter. Certain tiles with high absorption, surface porosity or rough surfaces may require sealing before grouting to prevent permanent staining. Some types of glazed ceramic tiles, marble, granite and marble agglomerates can be permanently stained, scratched, dulled or damaged when grouted with pigmented grout or sanded grout formulas. Generally, white grout is best suited for grouting. White or light-colored marble or granite. Check the tile or marble manufacturer's literature and test grout on a separate sample area before grouting to determine the suitability of the product with colored and/or sanded grouts. Remove excess adhesive

CHEMCON

or mortar from the joint area so that 2/3 of the depth of the tile is left available for grouting.

Mixing: Before mixing with water, Dry-blend the **CHEMC-GROUT** so that the finished grout does not show color variations.

CHEMCGROUT with cool, clean water at the rate of 1.50-1.75 to 5kg powder. Pour the required amount of clean, cool water into a mixing container. Gradually add the proportionate amount of **CHEMCGROUT** while slowly mixing. Always add the powder to the water while being consistent in the mixing process and with the quantity of water used from batch to batch.

Application: Apply **CHEMCGROUT** diagonally into the joints with a rubber edged spatula or squeegee. Remove excess grout with a moist sponge before drying. Do not apply grout to an area that is of a size that cannot be completed within 1 hour.

Porous tiles should be moistened with water or prime with **RocBond AR**. When grouting is complete polish tiles with dry cloths or soft mechanical polishers. 24 hours after grouting moisten the joints with a wet sponge.

Watch point: Certain porous ceramic and sandstone tiles may stain when grouted with pigmented tile grouts. Trial area should be conducted first. If required seal tile edges using **RocBond AR**

COVERAGE

Tile size: 10CM X 10CM X - 0.35 Kg/m² for width 2mm

Mosaic Tiles: 5CM X 5CM - 0.5 to 0.65kg/m² for width 1.5 - 3mm

PACKING & STORAGE

CHEMCGROUT is supplied in 5/10 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months.

TYPICAL PROPERTIES

Color	Available in more than 20 grout colors
Mix Ratio	1.50-1.75 ltr of water for 5 kg grout
Pot Life	1-2 Hours
Physical State	Powder
Flash Point	NA
Application temp:	+10 to 40 °C
ANSI Specification, ANSI A118.6	
Adhesion according to EN 12808-3	
Flexural strength (after 28 days)	> 2.5 Mpa EN12808-3
Compressive strength	> 15 Mpa EN12808-3
Shrinkage	< 0.30%
Water absorption (g)	< 2 g EN128085
VOC:	0.0g/l
Full Cure@25°C	28 Days
Abresion resistance	< 1000 MM EN12808-2

ISO 13007: Classification CG2WAF

ANSI: Meets or exceeds ANSI A118.6

HEALTH & SAFETY

CHEMCGROUT contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **CIL tile grout E** –Epoxy tile grout and adhesive.
- ▶ **CILTileFixU** - Universal Tile adhesive and mortar.
- ▶ **CIL Tile Grout** - water resistant, polymer modified cement based grout.
- ▶ **CIL WALL TILE ADHESIVE** – Acrylic modified ready mixed wall tile adhesive paste
- ▶ **CIL Tile FIX LM**– High strength latex based two component tile glue. Rev. Dec 2018

Rev. Dec 2018

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Technical Data Sheet - TDS



CHEMCON

CHEMFIX C11

Cementitious Adhesive for Ceramic Tiles

PRODUCT DESCRIPTION

CHEMFIX C11 is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D**. **CHEMFIX C11** is a normal (1) cementitious adhesive of **class C1**.

APPLICATION AND USAGE

Bonding of ceramic tiles and mosaics, single-fired and double-fired tiles for Internal floors, walls and ceilings. Recommended substrates such as cement mortar, ordinary cementations screeds, traditional renders

CHEMFIX C11 should not be used such as: On heated floors, for the installation of glass mosaics, large size tiles, on metal, PVC, rubber linoleum surfaces, on gypsum boards, on wood and light weight concrete and not for quick traffic areas.

ADVANTAGES

- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.
- ▶ For ceramic tiles, mosaic tiles, indoor areas for walls and floors.

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of **RocBond AR** prior to application of tiles. Ensure that tiles are dry and free from contaminants. Aerated concrete (free from dust) and primed with **RocBond AR**. Substrates must not be wet. Any existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX C11**. Mix thoroughly to a thick and creamy consistency and let stand for 3-4 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX C11** to clean water 3.9 - 4.45 liters of water for 20 kg of **CHEMFIX C11**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX C11**, is applied with a notched trowel onto the surface of 1m²@ a thickness of 3-6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is

CHEMCON

recommended: First apply a thin coat of **CHEMFIX C11** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX C11** using the toothed side of the trowel.

For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70 - 80 % for walls or for internal light foot traffic. For external application, the coverage must be 90 - 100%.

Coverage: For Small size tiles (trowel No4) 2 kg/m², Normal size tile (trowel No 5) 3kg/m², Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed, leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 6-8 hours and floor joints can be grouted after 24 hours.

TRAFFIC PROTECTION : Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days.

PACKING & STORAGE

CHEMFIX C11 is supplied in white and Grey 20/ 25 kg bags. Store unopened bags in clean, cool, and dry areas. Protected from direct sunlight same as for cement. Original unopened bags may be stored for up to 12 months.

HEALTH & SAFETY

CHEMFIX C11 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention.

TYPICAL PROPERTIES

Color	Grey and White
Pot Life	> 1 Hour
Mix Density	1900±100 kg/m ³
Open time	> 20 Mts
Adjustability Time	Approx. 45 mts
Application temp:	+5 to 45 °C
Compliance with: Adhesion according to ISO 13007-1 Adhesion according to EN 12004 American ANSI A 118.1	
Initial adhesion (after 28 days)	> 0.5 N/mm ²
Adhesion after heating	> 0.5 N/mm ²
Adhesion after water immersion	> 0.5 N/mm ²
Glazed wall tile shear strength @ 7 days	> 1.38N/mm ²
Adhesion after freeze-thaw cycles	> 0.80
VOC:	0.0g/l

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **RocFloor Primer** - Epoxy resin bonding agents suitable for bonding new to old concrete.
- ▶ **RocBond AR-** Primer–Single component low viscosity acrylic primer.
- ▶ **CIL tile grout E-** Epoxy tile grout and adhesive.
- ▶ **CIL tile Fix U** - Universal Tile adhesive and mortar.
- ▶ **CIL tile Grout** - water resistant, polymer modified cement based grout.
- ▶ **CIL WALL TILE ADHESIVE** – Acrylic modified ready mixed wall tile adhesive paste.
- ▶ **CIL Tile FIX LM-** High strength latex based two component tile glue.

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Technical Data Sheet - TDS



CHEMFIX CT 256

High-performance Flexible polymer modified cementitious tile adhesive

PRODUCT DESCRIPTION

CHEMFIX CT256 is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D**. **CHEMFIX CT256** is a Improved (2) slip-resistant (T) cementations (C) with extended open time (E) adhesive of class C2TE

APPLICATION AND USAGE

Bonding of ceramic, vitrified, porcelain, mosaic, granite, sand stone and marble tiles, Internal and external floors, walls and ceilings, Light weight AAC and concrete blocks , stones etc. Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool. Recommended substrates such as cement mortar, ordinary cementations screeds, traditional renders

CHEMFIX CT256 should not be used such as: On heated floors, for the installation of glass mosaics, on metal, PVC, rubber linoleum surfaces, on gypsum boards, on wood and light weight concrete and not for quick traffic areas

ADVANTAGES

- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.
- ▶ For installation of interior/exterior residential floors, walls and ceilings with ceramics and mosaics
- ▶ Laying tiles on substrates with up to 12 mm of unevenness, without levelling them before.
- ▶ Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool. Gypsum and anhydrite substrates etc.
- ▶ Swimming pools, light weight AAC and concrete blocks, Wet areas e.g: bathrooms, kitchens and toilets – Utility rooms like cellars, storerooms, drying rooms, and living rooms, Balconies and terraces

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of **RocBond AR** prior to application of tiles. Ensure that tiles are dry and free from contaminants. aerated concrete (free from dust) and primed with **RocBond AR**. Substrates must not be wet. Any existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX CT256**. Mix thoroughly to a thick and creamy consistency and let stand for 4-5 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX CT256** to clean water 4.2 - 4.7 liters of water for 20 kg of **CHEMFIX CT256**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX CT256** is applied with a notched trowel onto the surface of 1m²@ a thickness of 3-6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat of **CHEMFIX CT256** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX CT256** using the toothed side of the trowel. For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70% for walls or for internal light foot traffic. For external application, the coverage must be 100%. To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat using the smooth side of the trowel and immediately afterwards apply the desired thickness using the toothed side of the trowel.

Coverage: small size tiles (trowel No4) 2 kg/m². Normal size tile (trowel No 5) 3kg/m². External floor and wall coverings (trowel No.6). 5 kg/m² approximately. Spot-bonding insulating materials: approx. 0.5-0.8 kg/m² Gypsum wallboard, 1.5 kg/m². Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours

TRAFFIC PROTECTION: Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days.

Rev. Dec 2018

TYPICAL PROPERTIES

Color	Grey and White.
Mix Ratio	4.2-.4.7 ltr of water for 20 kg
Pot Life	> 6 hours
Mix Density	1700±100 kg/m ³
Open time	> 30mts
Application temp:	+5 to 45 °C
Adjustability time	Approx. 60 mts
Compliance with: Adhesion according to ISO 13007-1 (N/mm ²) American ANSI, A 118.1, A 118.4 Adhesion according to EN 12004	
initial adhesion (after 28 days)	> 1.7 , EN 1348 (N/mm ²)
Adhesion after heating	> 1.4
adhesion after water immersion	> 1.3
Adhesion after freeze-thaw cycles	> 1.2
Open time tensile adhesion strength @ 20 minutes	≥ 0.5 N/mm ² , EN 12004
Slip, (mm)	≤ 0.5 , EN 12004
Glazed wall tile shear strength @ 7 days, Porcelain mosaic tile shear strength @ 7 days, Quarry tile shear strength @ 28 days and Quarry tile, freeze -thaw cycle	> 2.07, > 1.38 , > 1.03 and 0.69 (ANSI A 118.4)
VOC:	0.0g/l

PACKING & STORAGE

CHEMFIX CT256 is supplied in white and Grey 20/ 25 kg bags. Store unopened bags in clean, cool, and dry areas. Protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months

HEALTH & SAFETY

CHEMFIX C256 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

CIL WALL TILE ADHESIVE – Acrylic modified ready mixed wall tile adhesive paste

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

Disclaimer

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Technical Data Sheet - TDS



CHEMFIX RAPID

High-performance, Rapid-Setting,
Large and Heavy Tile Mortar

PRODUCT DESCRIPTION

CHEMFIX RAPID is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D divisions**. **CHEMFIX RAPID** is a fast-setting, large-and-heavy-tile mortar and thin-set mortar for tile and stone installation on floors, walls and countertops. It is formulated as non-sag for walls and nonslump for floors. It can also be used as a mortar over uncoupling, crack-isolation, sound-reduction and waterproofing membranes. Classification **C2TF**

APPLICATION AND USAGE

For use over exterior-grade plywood, installation of ceramic and porcelain tile, quarry tile, pavers and Saltillo tile, as well as most types of marble, granite and natural stone.

For most interior and exterior residential installations on floors and walls, interior and exterior commercial installations on floors and most interior commercial installations on walls. And for use in tub surrounds and showers.

CHEMFIX RAPID should not be used such as: on concrete subject to high shrinkage, on walls and floors subject to strong movement or vibration (wood, fibre-cement, etc.) on metal surfaces

Do not use for moisture-sensitive stone (green marble; some limestone and granite), Resin-backed tiles. Do not use over dimensionally unstable substrates. To use directly over gypsum-based patching or leveling substrates,

ADVANTAGES

- ▶ Ideal for edge-leveling clip.
- ▶ Nonslump formula for large-format and heavy
- ▶ Tile and stone in floor applications
- ▶ For bond coats up to 12 mm in embedded thickness
- ▶ Polymer-enriched for high performance
- ▶ For use over plywood and a variety of membranes
- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.
- ▶ For installation of interior/exterior residential/commercial floors, walls and countertops.
- ▶ Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool

PACKING & STORAGE

CHEMFIX RAPID is supplied in 20/ 25 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months

TYPICAL PROPERTIES

Color	Grey and White
Mix Ratio	5.25-6.1 ltr of water for 20 kg
Pot Life	> 30 hours
Mix Density	1650±100 kg/m ³
Open time	> 10-20 mts
Application temp:	
Bonding strength in accordance with EN 1348 N/mm ² ISO 13007 Classification	
ANSI A118.4 (shear strength porcelain)	> 1.38 MPa @ 28 days
ANSI A118.4 (shear strength, glazed wall tile)	> 2.07 MPa@ 28 days
> ANSI A118.4 (shear strength, quarry tile to quarry tile)	> 1.03 MPa @28 days
ANSI A118.4T (Sag on vertical surfaces)	> 0.5 mm
ANSI A118.4F (shear strength, impervious ceramic)	> (0.34 MPa) at 4 hours
ANSI A118.11 (shear strength, quarry tile to plywood)	> 1.03 MPa@ 28 days
VOC:	0.0g/l

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be

thoroughly wetted down with clean water or sealed with a primer coat of RocBond AR prior to application of tiles. Ensure that tiles are dry and free from contaminants, aerated concrete (free from dust) and primed with RocBond AR. Substrates must not be wet. Any existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX RAPID**. Mix thoroughly to a thick and creamy consistency and let stand for 4-5 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX RAPID** to clean water 5.4-6.0 liters of water for 20 kg of **CHEMFIX RAPID**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX RAPID** is applied with a notched trowel onto the surface of 1m²@ a thickness of 3-6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat of **CHEMFIX RAPID** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX RAPID** using the toothed side of the trowel. For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70% for walls or for internal light foot traffic. For external application, the coverage must be 100%. To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat using the smooth side of the trowel and immediately afterwards apply the desired thickness using the toothed side of the trowel.

Coverage: small size tiles (trowel No4)

2 kg/m². Normal size tile (trowel No 5) 3kg/m².

External floor and wall coverings (trowel No.6). 5 kg/m² approximately.

Spot-bonding insulating materials: approx. 0.5-0.8 kg/m² Gypsum wallboard, 1.5 kg/m²

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

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Grouting: Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours

TRAFFIC PROTECTION Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days.

DIRECTIONS FOR USE

CHEMFIX RAPID contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

RocFloor Primer - Epoxy resin bonding agents suitable for bonding new to old concrete,

RocBond AR- primer—Single component low viscosity acrylic primer

CIL tile grout E—Epoxy tile grout and adhesive.

CILTileFixU- Universal Tile adhesive and mortar.

CIL Tile Grout - Water resistant, polymer modified cement based grout.

CIL WALL TILE ADHESIVE – Acrylic modified ready mixed wall tile adhesive paste

CIL Tile FIX LM- High strength latex based two component tile glue. Rev. Dec 2018

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Technical Data Sheet - TDS



CHEMCON

CHEMCGROUT C08

Polymer Modified Tile Grout for joints of 1 to 8mm width

PRODUCT DESCRIPTION

CHEMCGROUT C08 is a hard wearing, water-resistant grout for filling joints from 1.0mm to 8.0 mm for interior and exterior floors and walls. It is composed of precisely graded pure crystalline marble powder, a blend of special cements, water repellent materials, oxide colours and plasticizers. **CHEMCGROUT C08** is easily applied by hand and will give a water and weather resistant joint with no shrinkage.

APPLICATION AND USAGE

For grouting interior/exterior residential and commercial floor and wall surfaces in dry or wet conditions. For application in submerged conditions (swimming pools, spas, water features and fountains). For grouting dimensional stone, slate, granite, stone agglomerates and most types of ceramic, ceramic mosaic, quarry, brick paver, porcelain, glass and clay tiles and mosaics indoor and outdoor areas (like balcony, low height cladding). For narrow and wide joints of 1 to 8 mm.

CHEMCGROUT C08 should not be used grout joints greater than (8 mm) wide. Do not use **CHEMCGROUT C08** in highly chemical and stain-resistant area

ADVANTAGES

- ▶ **CHEMCGROUT C08** can be used on materials such as wall and floor tiles, clinkers, mosaics etc where joints do not exceed 3mm in width.
- ▶ Water resistant
- ▶ Use internally or externally
- ▶ Higher Crack Resistant
- ▶ Self coloured
- ▶ Smooth surface finish
- ▶ For fine grouting work
- ▶ Suitable for wet areas
- ▶ Easy to wash

DIRECTIONS FOR USE

Surface Preparation: Allow at least 24 hours between fixing tiles and grouting. Ensure that all tile joints and edges are free of excess tile fixing mortar and foreign matter. Certain tiles with high absorption, surface porosity or rough surfaces may require sealing before grouting to prevent permanent staining. Some types of glazed ceramic tiles, marble, granite and marble agglomerates can be permanently stained, scratched, dulled or damaged when grouted with pigmented grout or sanded grout formulas. Generally, white grout is best suited for grouting white or light-colored marble or granite.

CHEMCON

Check the tile or marble manufacturer's literature and test grout on a separate sample area before grouting to determine the suitability of the product with colored and/or sanded grouts. Remove excess adhesive or mortar from the joint area so that 2/3 of the depth of the tile is left available for grouting.

Mixing: Before mixing with water, Dry-blend the **CHEMCGROUT C08** so that the finished grout does not show color variations.

CHEMCGROUT C08 with cool, clean water at the rate of 1.50-1.75 to 5kg powder. Pour the required amount of clean, cool water into a mixing container. Gradually add the proportionate amount of **CHEMCGROUT C08** while slowly mixing. Always add the powder to the water while being consistent in the mixing process and with the quantity of water used from batch to batch.

Application: Apply **CHEMCGROUT C08** diagonally into the joints with a rubber edged spatula or squeegee. Remove excess grout with a moist sponge before drying. Do not apply grout to an area that is of a size that cannot be completed within 1 hour.

Porous tiles should be moistened with water prior to grouting. When grouting is complete polish tiles with dry cloths or soft mechanical polishers. 24 hours after grouting moisten the joints with a wet sponge.

Watch point: Certain porous ceramic and sandstone tiles may stain when grouted with pigmented tile grouts. Trial area should be conducted first. If required seal tile edges using **RocBond AR**

PACKING & STORAGE

CHEMCGROUT C08 is supplied in 5/10 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months.

COVERAGE

Tile size: 10CM X 10CM X - 0.35 Kg/m² for width 2mm

Mosaic Tiles: 5CM X 5CM - 0.5 to 0.65kg/m² for width 1.5 - 3mm

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

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TYPICAL PROPERTIES

Color	Available in more than 20 grout colors
Mix Ratio	1.50-1.75 ltr of water for 5 kg grout
Pot Life	1-2 Hours
Physical State	Powder
Flash Point	NA
Application temp:	+10 to 40 °C
ANSI Specification, ANSI A118.6	
Adhesion according to EN 12808-3	
Flexural strength (after 28 days)	> 2.5 Mpa EN12808-3
Compressive strength	> 18 Mpa EN12808-3
Shrinkage	< 0.30%
Water absorption (g)	< 2 g EN128085
VOC:	0.0g/l
Full Cure@25°C	28 Days
Abresion resistance	< 1000 MM EN12808-2

HEALTH & SAFETY

CHEMCGROUT C08 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **CIL Tile FIX LM**– High strength latex based two component tile glue.
- ▶ Rev. Dec 2018

Technical Data Sheet - TDS



CHEMCON

CHEMCGROUT C12

Polymer Modified Tile Grout for joints of 1 to 12mm width

PRODUCT DESCRIPTION

CHEMCGROUT C12 is a hard wearing, water-resistant grout for filling narrow and wide joints from 1.0mm to 12.0 mm for interior and exterior floors and walls. It is composed of precisely graded pure crystalline marble powder, a blend of special cements, water repellent materials, oxide colours and plasticizers. **CHEMCGROUT C12** is easily applied by hand and will give a water and weather resistant joint with no shrinkage.

APPLICATION AND USAGE

For grouting interior/exterior residential and commercial floor and wall surfaces in dry or wet conditions, For application in submerged conditions (swimming pools, spas, water features and fountains), For grouting, ceramic mosaic, porcelain, glass and mosaics indoor and outdoor areas. For narrow and wide joints from 1 to 12 mm width.

CHEMCGROUT C12 should not be used grout joints greater than (12mm) wide. Do not use **CHEMCGROUT C12** in highly chemical and stain-resistant area.

ADVANTAGES

- ▶ **CHEMCGROUT C12** can be used on materials such as wall and floor tiles, clinkers, mosaics etc, where joints do not exceed 3mm in width.
- ▶ Water resistant
- ▶ Fiber - reinforced for higher crack resistance
- ▶ No sagging
- ▶ Use internally or externally
- ▶ Higher Crack Resistant
- ▶ Self coloured
- ▶ Smooth surface finish

DIRECTIONS FOR USE

Surface Preparation: Allow at least 24 hours between fixing tiles and grouting. Ensure that all tile joints and edges are free of excess tile fixing mortar and foreign matter. Certain tiles with high absorption, surface porosity or rough surfaces may require sealing before grouting to prevent permanent staining. Some types of glazed ceramic tiles, marble, granite and marble agglomerates can be permanently stained, scratched, dulled or damaged when grouted with pigmented grout or sanded grout formulas. Generally, white grout is best suited for grouting white or light-colored marble or granite.

CHEMCON

Check the tile or marble manufacturer's literature and test grout on a separate sample area before grouting to determine the suitability of the product with colored and/or sanded grouts. • Remove excess adhesive or mortar from the joint area so that 2/3 of the depth of the tile is left available for grouting.

Mixing: Before mixing with water, Dry-blend the **CHEMCGROUT C12** so that the finished grout does not show color variations. **CHEMCGROUT C12** with cool, clean water at the rate of 1.50-1.75 to 5kg powder. Pour the required amount of clean, cool water into a mixing container. Gradually add the proportionate amount of **CHEMCGROUT C12** while slowly mixing. Always add the powder to the water while being consistent in the mixing process and with the quantity of water used from batch to batch.

Application: Apply **CHEMCGROUT C12** diagonally into the joints with a rubber edged spatula or squeegee. Remove excess grout with a moist sponge before drying. Do not apply grout to an area that is of a size that cannot be completed within 1 hour.

Porous tiles should be moistened with water prior to grouting. When grouting is complete polish tiles with dry cloths or soft mechanical polishers. 24 hours after grouting moisten the joints with a wet sponge.

Watch point: Certain porous ceramic and sandstone tiles may stain when grouted with pigmented tile grouts. Trial area should be conducted first. If required seal tile edges using **RocBond AR**

PACKING & STORAGE

CHEMCGROUT C12 is supplied in 5/10 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months.

COVERAGE

Tile size: 10CM X 10CM X - 0.35 Kg/m² for width 2mm

Mosaic Tiles: 5CM X 5CM - 0.5 to 0.65kg/m² for width 1.5 - 3mm

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TYPICAL PROPERTIES

Color	Available in more than 20 grout colors
Mix Ratio	1.50-1.75 ltr of water for 5 kg grout
Pot Life	1-2 Hours
Physical State	Powder
Flash Point	NA
Application temp:	+10 to 40 °C
ANSI Specification, ANSI A118.6	
Adhesion according to EN 12808-3	
Flexural strength (after 28 days)	> 3 Mpa EN12808-3
Compressive strength	> 20 Mpa EN12808-3
Shrinkage	< 0.30%
Water absorption (g)	< 2 g EN128085
VOC:	0.0g/l
Full Cure@25°C	28 Days
Abresion resistance	< 1000 MM EN12808-2

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **CIL Tile FIX LM**- High strength latex based two component tile glue.
- ▶ **RocFloor Primer** - Epoxy resin bonding agents suitable for bonding new to old concrete,
- ▶ **RocBond AR- primer**-Single component low viscosity acrylic primer
- ▶ **CIL tile grout E**- Epoxy tile grout and adhesive.
- ▶ **CILTileFixU** - Universal Tile adhesive and mortar.
- ▶ **CIL Tile Grout** - water resistant, polymer modified cement based grout

Rev. Dec 2018

HEALTH & SAFETY

CHEMCGROUT C12 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention

Technical Data Sheet - TDS



CHEMCGROUT C20

Polymer Modified Tile Grout for wide joints
of 1 to 19mm width

PRODUCT DESCRIPTION

CHEMCGROUT C20 is a hard wearing, water-resistant grout for filling narrow and wide joints from 2.0mm to 19 mm for interior and exterior floors and walls. It is composed of precisely graded pure crystalline marble powder, a blend of special cements, water repellent materials, oxide colours and plasticizers. **CHEMCGROUT C20** is easily applied by hand and will give a water and weather resistant joint with no shrinkage

APPLICATION AND USAGE

For grouting interior/exterior residential and commercial floor and wall surfaces in dry or wet conditions. For application in submerged conditions (swimming pools, spas, water features and fountains), For grouting dimensional stone, slate, granite, stone agglomerates and most types of ceramic, ceramic mosaic, quarry, brick paver, porcelain, glass and clay tiles and mosaics indoor and outdoor areas. For narrow and wide joints from 2 to 19 mm width.

CHEMCGROUT C20 should not be used grout joints greater than (19mm) wide. Do not use **CHEMCGROUT C20** in highly chemical and stain-resistant area. Expansion and movement joints on walls and floors must never be filled with **CHEMCGROUT C20**. If an acid-based cleaner is used to

clean the joint, we recommend testing the product beforehand to check the resistance of the color.

ADVANTAGES

- ▶ **CHEMCGROUT C20** can be used on materials such as wall and floor tiles, clinkers, mosaics etc. where joints do not exceed 3mm in width.
- ▶ Water resistant
- ▶ Fibre reinforced for higher crack resistance
- ▶ No sagging
- ▶ Use internally or externally
- ▶ Higher Crack Resistant
- ▶ Self coloured
- ▶ Smooth surface finish
- ▶ For fine grouting work
- ▶ Suitable for wet areas
- ▶ Easy to wash

DIRECTIONS FOR USE

Surface Preparation: Allow at least 24 hours between fixing tiles and grouting. Ensure that all tile joints and edges are free of excess tile fixing mortar and foreign matter. Certain tiles,

with high absorption, surface porosity or rough surfaces may require sealing before grouting to prevent permanent staining. Some types of glazed ceramic tiles, marble, granite and marble agglomerates can be permanently stained, scratched, dulled or damaged when grouted with pigmented grout or sanded grout formulas. Generally, white grout is best suited for grouting. White or light-colored marble or granite. Check the tile or marble manufacturer's literature and test grout on a separate sample area before grouting to determine the suitability of the product with colored and/or sanded grouts. Remove excess adhesive or mortar from the joint area so that 2/3 of the depth of the tile is left available for grouting.

Mixing: Before mixing with water, Dry-blend the **CHEMCGROUT C20** so that the finished grout does not show color variations. **CHEMCGROUT C20** with cool, clean water at the rate of 1.50-1.75 to 5kg powder. Pour the required amount of clean, cool water into a mixing container. Gradually add the proportionate amount of **CHEMCGROUT C20** while slowly mixing. Always add the powder to the water while being consistent in the mixing process and with the quantity of water used from batch to batch.

Application: Apply **CHEMCGROUT C20** diagonally into the joints with a rubber edged spatula or squeegee. Remove excess grout with a moist sponge before drying. Do not apply grout to an area that is of a size that cannot be completed within 1 hour.

Porous tiles should be moistened with water prior to grouting. When grouting is complete polish tiles with dry cloths or soft mechanical polishers. 24 hours after grouting moisten the joints with a wet sponge.

PACKING & STORAGE

CHEMCGROUT C20 is supplied in 5/10 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months

COVERAGE

Tile size: 10CM X 10CM X - 0.35 Kg/m² for width 2mm

Mosaic Tiles: 5CM X 5CM - 0.5 to 0.65kg/m² for width 1.5 - 3mm

TYPICAL PROPERTIES

Color	Available in more than 20 grout colors
Mix Ratio	1.50-1.75 ltr of water for 5 kg grout
Pot Life	1-2 Hours
Physical State	Powder
Flash Point	NA
Application temp:	+10 to 40 °C
ANSI Specification, ANSI A118.6	
Adhesion according to EN 12808-3	
Flexural strength (after 28 days)	> 3.45 Mpa EN12808-3
Compressive strength	> 20 Mpa EN12808-3
Shrinkage	< 0.30%
Water absorption (g)	< 2 g EN128085
VOC:	0.0g/l
Full Cure@25°C	28 Days
Abresion resistance	< 1000 MM EN12808-2

ISO 13007: Classification CG2WAF

ANSI: Meets or exceeds ANSI A118.6

HEALTH & SAFETY

CHEMCGROUT C20 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **RocFloor Primer** - Epoxy resin bonding agents suitable for bonding new to old concrete,
- ▶ **RocBond AR- primer**—Single component low viscosity acrylic primer
- ▶ **CIL tile grout E**—Epoxy tile grout and adhesive.

Rev. Dec 2018

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Technical Data Sheet - TDS



CHEMCON

CHEMFIX C22

Cementitious Adhesive for ceramic tiles

PRODUCT DESCRIPTION

CHEMFIX C22 is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R & D**. **CHEMFIX C22** is a **C2** class cementations (**C**), improved (**2**).

APPLICATION AND USAGE

Bonding of ceramic tiles and mosaics, single-fired and double-fired tiles, stone, porcelain and quarry tiles for residential Internal and external floors, walls and ceilings. Recommended substrates such as cement mortar, ordinary cementations screeds, traditional renders.

CHEMFIX C22 should not be used such as: On heated floors, for the installation of glass mosaics, large size tiles, on metal, PVC, rubber linoleum surfaces, on gypsum boards, on wood and light weight concrete and not for quick traffic areas

ADVANTAGES

- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.
- ▶ For interior/external residential installations on floors and walls. Interior/external commercial installations on floors and most interior commercial installations on walls.

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of **RocBond AR** prior to application of tiles. Ensure that tiles are dry and free from contaminants. Aerated concrete (free from dust) and primed with **RocBond AR**. Substrates must not be wet. Any existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX C22**. Mix thoroughly to a thick and creamy consistency and let stand for 4-5 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX C22** to 3.9-4.4 liters of water for 20 kg of **CHEMFIX C22**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX C22**, is applied with a notched trowel onto the surface of 1m²@ a thickness of 3-6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is recommended: First apply a thin coat of **CHEMFIX C22** using the

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smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX C22** using the toothed side of the trowel. For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70 - 75% for walls or for internal light foot traffic. For external application, the coverage must be 90-00%.

Coverage: small size tiles (trowel No4), 2 kg/m². Normal size tile (trowel No 5) 3kg/m². External floor and wall coverings (trowel No.6). 5 kg/m². Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 6-8 hours and floor joints can be grouted after 24 hours

TRAFFIC PROTECTION: Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days

PACKING & STORAGE

CHEMFIX C22 is supplied in 20/ 25 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. same as for cement. Original unopened bags may be stored for up to 12 months

HEALTH & SAFETY

CHEMFIX C22 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention.

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TYPICAL PROPERTIES

Color	Grey and White
Mix Ratio	3.9-4.4 ltr of water for 20 kg
Pot Life	> 2 Hours
Mix Density	1900±100 kg/m ³
Open time	Min.20mts
Adjustability time	Approx. 45 mts
Application temp:	+5 to 45 °C
Compliance with: Adhesion according to ISO 13007-1 Adhesion according to EN 12004 American ANSI A 118.4	
Initial adhesion (after 28 days)	> 1 N/mm ²
Adhesion after heating	> 0.65 N/mm ²
Adhesion after water immersion	> 0.85 N/mm
Adhesion after freeze-thaw cycles	> 0.95
Glazed wall tile shear strength @ 7 days	> 1.38N/mm
VOC:	0.0g/l

- ▶ **RocFloor Primer** - Epoxy resin bonding agents suitable for bonding new to old concrete.
- ▶ **RocBond AR-** Primer-Single component low viscosity acrylic primer.
- ▶ **CIL tile grout E-** Epoxy tile grout and adhesive.
- ▶ **CIL tile Fix U** - Universal Tile adhesive and mortar.
- ▶ **CIL tile Grout** - water resistant, polymer modified cement based grout.
- ▶ **CIL WALL TILE ADHESIVE** - Acrylic modified ready mixed wall tile adhesive paste.
- ▶ **CIL Tile FIX LM-** High strength latex based two component tile glue.

Rev. Dec 2018

Technical Data Sheet - TDS



CHEMCON

CHEMFIX CT44

Ceramic tile adhesive with no vertical slip

PRODUCT DESCRIPTION

CHEMFIX CT44 is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D**. **CHEMFIX CT44** is a normal **(1)** slip-resistant **(T)** cementations **(C)** adhesive of **class C1T**

APPLICATION AND USAGE

Bonding of Internal and external floors, walls and ceilings of ceramic tiles and mosaics, Light weight AAC and concrete blocks, Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool. Recommended substrates such as cement mortar, ordinary cementations screeds, traditional renders

CHEMFIX CT44 should not be used such as: On heated floors, for the installation of glass mosaics, large size tiles, on metal, PVC, rubber linoleum surfaces, on gypsum boards, on wood and light weight concrete and not for quick traffic areas

ADVANTAGES

- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.

- ▶ For installation of interior/exterior residential/commercial floors, walls and ceilings.
- ▶ Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool
- ▶ Light weight AAC and concrete blocks
- ▶ Wet areas e.g. bathrooms, kitchens and toilets – Utility rooms like cellars, storerooms, drying rooms, living rooms, Balconies and terraces.

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of **RocBond AR** prior to application of tiles. Ensure that tiles are dry and free from contaminants. Aerated concrete (free from dust) and primed with **RocBond AR**. Substrates must not be wet, any existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX CT44**. Mix thoroughly to a thick and creamy consistency and let stand for 3-5 minutes.

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Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX CT44** to 4 to 4.5 liters of water for 20 kg of **CHEMFIX CT44**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX CT44**, is applied with a notched trowel onto the surface of 1m²@ a thickness of 3–6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is recommended: First apply a thin coat of **CHEMFIX CT44** using the

smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX CT44** using the toothed side of the trowel. For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70 - 75% for walls or for internal light foot traffic. For external application, the coverage must be 90-00%.

Coverage: small size tiles (trowel No4) 2 kg/m². Normal size tile (trowel No 5) 3kg/m². External floor and wall coverings (trowel No.6). 5 kg/m² approximately.

Spot-bonding insulating materials: approx. 0.5-0.8 kg/m² Gypsum wallboard, 1.5 kg/m². Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours

TRAFFIC PROTECTION: Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days.

TYPICAL PROPERTIES

Color	Grey and White
Mix Ratio	4.0-4.5 ltr of water for 20 kg
Pot Life	> 1 Hours
Mix Density	1900±100 kg/m ³
Open time	> Min.20mts
Adjustability time	Approx. 45 mts
Application temp:	+5 to 45 °C
Compliance with: Adhesion according to ISO 13007-1 (N/mm ²) American ANSI, A 118.1, Adhesion according to EN 12004	
Initial adhesion (after 28 days)	> 1.0
Adhesion after heating	> 0.75
Adhesion after water immersion	> 0.85
Adhesion after freeze-thaw cycles	> 0.11
Open time tensile adhesion strength @ 20 minutes	≥0.5 N/mm ² , EN 12004
Slip, (mm)	≤0.5 ,EN 12004
Glazed wall tile shear strength @7 days, Porcelain mosaic tile shear strength @7 days, Quarry tile shear strength @28 days	>2.00, >1.38 , >1.03 (ANSI A 118.4)
VOC	0.0 g/l

PACKING & STORAGE

CHEMFIX CT44 is supplied in 20/25 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months

HEALTH & SAFETY

CHEMFIX CT44 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **CIL Tile FIX LM**– High strength latex based two component tile glue.
- ▶ Rev. Dec 2018

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CHEMCON

CHEMFIX CT46

High initial grab cementations tile adhesive with no Vertical slip

PRODUCT DESCRIPTION

CHEMFIX CT46 is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D**.

CHEMFIX CT46 is a Improved **(2)** slip-resistant **(T)** cementations **(C)** adhesive of class **C2T**

APPLICATION AND USAGE

Bonding of Internal and external floors, walls and ceilings of all types ceramic tiles and mosaics, Light weight AAC and concrete blocks, Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool. Recommended substrates such as cement mortar, ordinary cementations screeds, traditional renders

CHEMFIX CT46 should not be used such as: On heated floors, for the installation of glass mosaics, large size tiles, on metal, PVC, rubber linoleum surfaces, on gypsum boards, on wood and light weight concrete and not for quick traffic areas

ADVANTAGES

- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.
- ▶ For installation of interior/external residential/commercial floors, walls and ceilings.
- ▶ Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool
- ▶ Light weight AAC and concrete blocks
- ▶ Wet areas e.g. bathrooms, kitchens and toilets – Utility rooms like cellars, storerooms, drying rooms, and living rooms, Balconies and terraces

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of **RocBond AR** prior to application of tiles. Ensure that tiles are dry and free from contaminants. aerated concrete (free from dust) and primed with RocBond AR. Substrates must not be wet. Any

existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX CT26**. Mix thoroughly to a thick and creamy consistency and let stand for 4-5 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX CT46** to 4.0 - 4.5 liters of water for 20 kg of **CHEMFIX CT46**. Hand mixing is only acceptable for very small quantities and is not recommended..

Application: Apply **CHEMFIX CT46** is applied with a notched trowel onto the surface of 1m²@ a thickness of 3-6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat of **CHEMFIX CT46** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX CT46** using the toothed side of the trowel. For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70% for walls or for internal light foot traffic. For external application, the coverage must be 90 - 100%.

Coverage: small size tiles (trowel No4) 2 kg/m². Normal size tile (trowel No 5) 3kg/m². External floor and wall coverings (trowel No.6). 5 kg/m² approximately. Spot-bonding insulating materials: approx. 0.5-0.8 kg/m² Gypsum wallboard, 1.5 kg/m². Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours.

TRAFFIC PROTECTION: Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days.

TYPICAL PROPERTIES

Color	Grey and White.
Mix Ratio	4.0-.4.5 ltr of water for 20 kg
Pot Life	> 2 hours
Mix Density	1900±100 kg/m ³
Open time	> 20mts
Adjustability time	Approx. 45 mts
Compliance with: Adhesion according to ISO 13007-1 (N/mm ²) American ANSI, A 118.1, A 118.4 Adhesion according to EN 12004	
Initial adhesion (after 28 days)	> 1.10 , EN 1348 (N/mm ²)
Adhesion after heating	> 0.80
Adhesion after water immersion	> 0.85
Adhesion after freeze-thaw cycles	> 0.11
Open time tensile adhesion strength @ 20 minutes	≥ 0.5 N/mm ² , EN 12004
Slip. (mm)	≤ 0.5 ,EN 12004
Glazed wall tile shear strength @7 days, Porcelain mosaic tile shear strength @7 days, Quarry tile shear strength @28 days	>2.20, >1.38 , >1.03 (ANSI A 118.4)

ISO 13007: Classification CG2WAF

ANSI: Meets or exceeds ANSI A118.6

PACKING & STORAGE

CHEMFIX CT46 is supplied in 20/25kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months.

HEALTH & SAFETY

CHEMFIX CT46 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **CIL tile grout E** –Epoxy tile grout and adhesive.
- ▶ **CILTileFixU** - Universal Tile adhesive and mortar.

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Technical Data Sheet - TDS



CHEMCON

CHEMFIX CT 154

Tile adhesive with no vertical slip and extended open time, for the installation of ceramic tiles.

PRODUCT DESCRIPTION

CHEMFIX CT154 is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D**.

CHEMFIX CT154 is cementations adhesive Normal (1) cementations (**C**) no vertical slip (**T**) and extended open time (**E**) of class **C1TE** adhesive.

APPLICATION AND USAGE

Bonding of all types and size of ceramic tiles in Internal and bonding of all ceramic tiles in general for external applications.

CHEMFIX CT154 should not be used such as: On heated floors, for the installation of glass mosaics, large size tiles, on metal, PVC, rubber linoleum surfaces, on gypsum boards, on wood and light weight concrete and not for quick traffic areas.

PACKING & STORAGE

CHEMFIX CT154 is supplied in 20/ 25 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months.

ADVANTAGES

- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.
- ▶ For installation of all type and size of ceramic tiles in interior/exterior residential/commercial floors, walls and ceilings.
- ▶ Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of **RocBond AR** prior to application of tiles. Ensure that tiles are dry and free from contaminants. aerated concrete (free from dust) and primed with **RocBond AR**. Substrates must not be wet. Any existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the required amount of cool, clean water to a forced action mixer and slowly introduce the **CHEM-FIX CT154**. Mix thoroughly to a thick and creamy

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consistency and let stand for 4-5 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX CT154** to clean water 4.0 - 4.6 liters of water for 20 kg of **CHEMFIX CT154**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX CT154** is applied with a notched trowel onto the surface of 1m²@ a thickness of 3-6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat of **CHEMFIX CT154** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX CT154** using the toothed side of the trowel. For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70% for walls or for internal light foot traffic. For external application, the coverage must be 90- 100%.

Coverage: small size tiles (trowel No4) 2 kg/m². Normal size tile (trowel No 5) 3kg/m². External floor and wall coverings (trowel No.6). 5 kg/m² approximately. Spot-bonding insulating materials: approx. 0.5-0.8 kg/m² Gypsum wallboard, 1.5 kg/m². Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours

TRAFFIC PROTECTION : Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days.

TYPICAL PROPERTIES

Color	Grey and White.
Mix Ratio	4.0 - 4.6 ltr of water for 20 kg
Pot Life	> 6 hours
Mix Density	1650±100 kg/m ³
Open time	> 30mts
Application temp:	+5 to 45 °C
Adjustability time	Approx. 45 mts
Compliance with: Adhesion according to ISO 13007-1 (N/mm ²) American ANSI, A 118.1, A 118.4 Adhesion according to EN 12004	
Initial adhesion (after 28 days)	> 1.2
Adhesion after heating	> 0.80
Adhesion after water immersion	> 1.0
Adhesion after freeze-thaw cycles	> 1.1
VOC:	0.0g/l

HEALTH & SAFETY

CHEMFIX CT154 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention.

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

- ▶ **CIL tile grout E** –Epoxy tile grout and adhesive.
- ▶ **CILTileFixU** - Universal Tile adhesive and mortar.
- ▶ **CIL Tile Grout** - water resistant, polymer modified cement based grout.
- ▶ **CIL WALL TILE ADHESIVE** – Acrylic modified ready mixed wall tile adhesive paste
- ▶ **CIL Tile FIX LM**– High strength latex based two component tile glue. Rev. Dec 2018

Rev. Dec 2018

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Technical Data Sheet - TDS



CHEMCON

CHEMFIX ELTS1

Polymer fortified Super Flexible tile adhesive for installing, large-size porcelain tiles and natural stones.

PRODUCT DESCRIPTION

CHEMFIX ELTS1 is a cement based tile adhesive composed of cement, sands of selected aggregates and special additives according to a formula developed in **CHEMCON R&D**. **CHEMFIX ELTS1** is cementations adhesive Improved (2) cementations (C) no vertical slip (T) extended open time (E) and deformable (S1) of class **C2TES1** of adhesive.

APPLICATION AND USAGE

Bonding of all types and size of ceramic tiles in Internal and external (single and double fired tiles, porcelain tiles, clinker, terracotta, etc) Interior and exterior bonding of stone and agglomerate materials. Spot bonding of insulating material in interior such as expanded polystyrene, rock and glass wool, (wood-cement panels), sound-deadening panels.

CHEMFIX ELTS1 should not be used such as on conglomerates, rubber, PVC and linoleum surfaces. and natural stone subject to eorescence and on pre-cast concrete subject to excessive movement.

ADVANTAGES

- ▶ Easy workability
- ▶ Excellent adhesion to many substrates.
- ▶ For installation of large format tiles and stones
- ▶ Spot bonding of insulating materials such as expanded polystyrene, expanded polyurethane, rock and glass wool
- ▶ Installation of Floors subjected to heavy traffic
- ▶ High Bond Strength
- ▶ For Installation of critical surfaces like balconies and terraces, for wet area's and swimming pools

DIRECTIONS FOR USE

Surface Preparation: Surfaces to receive tiles should be clean, sound, stable and free from laitance, paint, oil, grease, mould release agents and residual curing compounds. Highly absorbent and porous surfaces should be thoroughly wetted down with clean water or sealed with a primer coat of RocBond AR prior to application of tiles. Ensure that tiles are dry and free from contaminants. Aerated concrete (free from dust) and primed with RocBond AR. Substrates must not be wet. Any existing dirt, loose layers and paint coating with low strength shall be mechanically removed.

Mixing: Add the amount of cool, clean water to a forced action mixer and slowly introduce the **CHEMFIX**

CHEMCON

CHEMFIX ELTS1. Mix thoroughly to a thick and creamy consistency and let stand for 4-5 minutes. Part bags may be mixed using a slow speed drill and paddle mixer by adding **CHEMFIX ELTS1** to clean water 5.0 - 5.7 liters of water for 20 kg of **CHEMFIX ELTS1**. Hand mixing is only acceptable for very small quantities and is not recommended.

Application: Apply **CHEMFIX ELTS1** is applied with a notched trowel onto the surface of 1m²@ a thickness of 3-6mm. Press tiles into place with a slight twisting motion ensuring the tile back achieves full contact with the adhesive. To obtain good adhesion to the substrate the following system is recommended: first apply a thin coat of **CHEMFIX ELTS1** using the smooth side of the trowel and immediately afterwards apply the desired thickness of **CHEMFIX ELTS1** using the toothed side of the trowel.

For other vertical applications, use a 6mm notched trowel to horizontally comb the adhesive bed to remove excess. Choose a trowel that will give a coverage to the back of the tiles of approximately 70% for walls or for internal light foot traffic. For external application, the coverage must be 90-100%.

Coverage: Amount required: Tile size up to 10CMX10CM (notch size 4mmx4mm) 1.6-1.8kg, Amount required: Tile size up to 15CMX15CM (notch size 6mmx6mm) 2.0-2.4kg, Amount required: Tile size up to 30CMX30CM (notch size 10mmx10mm) 3.2-3.8kg, Amount required: Tile size Above 30CMX30CM (notch size 12mmx12mm) 4.1kg. Coverage will vary according to the surface conditions.

Spacing: Ceramic tiles should not be butt jointed; leave a gap of 2mm around each tile. To ensure even spacing, tile spacing string or spacers of the required thickness are recommended.

Grouting: Wall joints between the ceramic tiles can be grouted after 4-8 hours and floor joints can be grouted after 24 hours

TRAFFIC PROTECTION: Protect floors from foot traffic for at least 72 hours after installation. Ready to use: Surfaces are ready for normal use after approx. 15 days

TYPICAL PROPERTIES

Color	Grey and White.
Mix Ratio	5.0-5.7 ltr of water for 20 kg
Pot Life	8 hours
Mix Density	1500±100 kg/m ³
Open time	> 30mts
Application temp:	+5 to 45 °C
Adjustability time	Approx. 60 mts
Compliance with: Adhesion according to ISO 13007-1 (N/mm ²) American ANSI, A 118.1, A 118.4 Adhesion according to EN 12004	
initial adhesion (after 28 days)	> 2.2
Adhesion after heating	> 2.0
adhesion after water immersion	> 1.0
Adhesion after freeze-thaw cycles	> 1.2
Deformable, (2.5 mm)	S1
VOC:	0.0g/l
Slip, (mm)	≤0.5 ,EN 12004

PACKING & STORAGE

CHEMFIX ELTS1 is supplied in 20/ 25 kg bags. Store unopened bags in clean, cool, and dry areas protected from direct sunlight. Store as for cement. Original unopened bags may be stored for up to 12 months

HEALTH & SAFETY

CHEMFIX ELTS1 contains no hazardous substances however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes wash thoroughly and immediately with warm water. If swallowed seek medical attention

OTHER BONDING AGENTS AND TILING PRODUCTS AVAILABLE FROM CIL.

CIL WALL TILE ADHESIVE – Acrylic modified ready mixed wall tile adhesive paste

CIL Tile Grout - water resistant, polymer modified cement based grout.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

Disclaimer

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer? Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and GET makes no claim that these tests or any other tests, accurately represent all environments.

The background of the image is a blurred industrial scene. It features a large, curved metal structure, possibly a conveyor belt or a large pipe, with a blueish-grey color palette. The lighting is dramatic, with strong highlights and deep shadows, creating a sense of depth and movement. A solid black rectangular box is centered over the image, containing the text 'SURFACE TREATMENT' in white, bold, sans-serif capital letters.

SURFACE TREATMENT

PRODUCT DATA SHEET



RocCure CL

Resin Based Curing Compound and Surface Sealer

PRODUCT DESCRIPTION

RocCureCL is a low viscosity liquid ready to use curing compound based on specially selected hydrocarbon resin. The color less low viscosity liquid is used for curing freshly placed concrete. Being a resin based system, the membrane that is formed is permanent and does not degrade with time. The system does not have to be removed prior to the application of subsequent treatment

FIELDS OF APPLICATION

Function of RocCure CL is to seal the concrete surface and to control the rate of moisture loss prior to complete hydration of the cement curing. High performance in curing concrete in high rise building, curing in remote areas where water is scarce or inaccessible. Foundation, column curing prior to the subsequent treatment. Dust proofing and floor hardening in industrial units and show-room floors.

ADVANTAGES

- ▶ Highly effective moisture retention for complete hydration of cement.
- ▶ No need to remove the curing compound for further treatment.
- ▶ Eliminate the need for water curing. Ideal for high rise construction.
- ▶ Reduced chloride penetration due to hard, impermeable, dust free surfaces.
- ▶ Single component
- ▶ Permanent penetrating treatment
- ▶ Non degradable
- ▶ Hardening action improves abrasion resistance and chemical resistance to mild acid and alkalis.
- ▶ RocCureCL does not affect the bonding between the substrate and the subsequent finish such as plaster, repair mortar, tile adhesive, and paints, based on PVA, acrylic, bituminous, epoxy and polyurethane coatings.

COVERAGE

4-6 m²/liter depending on surface texture and roughness.

TYPICAL PROPERTIES

Appearance	Clear liquid. Cures to a clear tack free surfaces
Specific gravity ASTM D1475	0.85±0.05 @25°C
Curing efficiency BS 7542	▶ 85%
Drying time ASTM C309	< 20 mins
Foam	Liquid
Component	Single
Chloride content	Nil

DIRECTIONS FOR USE

Surface should be without free water standing. Do not dilute. Apply by low pressure spray as evenly as possible to the freshly placed concrete. For horizontal Surfaces apply as soon as the surface sheen as disappeared. On vertical and formed surfaces apply immediately the formwork is removed. For industrial floors maximum wear, abrasion and chemicals resistance a second coat should be applied after 24 hours. Old concrete floors to be treated must be free from dust loosely adhered, plaster and cement drop-pings, grease, and paints etc.

GENERAL INFORMATION

On dense and power floated concrete may not absorb RocCureCL readily as the surface is already sealed. Carry out the test.

HEALTH & SAFETY

As with CIL products care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes, and skin immediately, by thorough washing with clear water. RocFloorCL Harmful by inhalation, if swallowed and in contact with skin. Wear suitable gloves and eye/face protection.

OUR PRODUCT RANGE

- ▶ **RocFlow PR9**- High Performance Concrete Plasticizer & Retarder
- ▶ **RocFoam AE**- Air-Entraining Agent For Foam Concrete
- ▶ **RocFlow Admix**- Accelerating plasticizer, Suitable for Precast Use
- ▶ **RocBond PVA**- Multipurpose Bonding Agent and Admixtures
- ▶ **RocFlow PC9**- Accelerating plasticizer, Suitable for Precast Use
- ▶ **RocBond AR**- single component, acrylic bonding agent & curing aid for use with Tuff Build repair mortars.
- ▶ **CIL Tile Latex**- rubber latex admixture for enhancing the physical properties of cement based mortars.
- ▶ **RocCoat RBE**- rubberized bitumen emulsion.
- ▶ **RocCoat WB primer**- bitumen emulsion coating.
- ▶ **CIL Tile Latex**- rubber latex admixture for enhancing the physical properties of cement based mortars.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local our Products representative or visit our website for current technical data and instructions.

Disclaimer

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PRODUCT DATA SHEET

RocCureWB

Water Based Low Viscosity Concrete Curing Compounds

PRODUCT DESCRIPTION

RocCureWB is a white, low viscosity wax emulsion which incorporates a special alkali reactive emulsion breaking system. The system forms a continuous non-penetrating film on cementations surfaces preventing excessive water evaporation leading to more efficient cement hydration thereby reducing shrinkage and increasing durability. Where it is required to apply a further treatment to such concrete surface, it may be necessary to remove the membrane remaining after curing by wire brushing or other mechanical means

FIELDS OF APPLICATION

Function of RocCure WB, is used for concreting generally but especially useful for large areas of concrete such as pavements, runways and bridge decks; also for vertical or sloping surfaces as on towers, chimneys, canal linings, columns and beams. For spraying on freshly cast concrete, or newly exposed concrete surfaces after removal of form work, to form a temporary membrane which will retain sufficient moisture for effective curing to take place.

TYPICAL APPLICATIONS

- ▶ Highly effective moisture retention for complete hydration of cement
- ▶ Single component.
- ▶ Reduced chloride penetration due to hard, impermeable, dust free surfaces
- ▶ Forms moisture barrier for whole of the curing period.
- ▶ No other curing necessary
- ▶ Eliminates use of water, hessian or sand, completely.
- ▶ Reliable: No risk of erratic or poor curing and ensures that cement hydrates efficiently.
- ▶ Ensures hard-wearing surface
- ▶ Minimizes risk of drying shrinkage, cracks and dusty surfaces.
- ▶ Easy and safe spray application:
- ▶ Non-toxic and nonflammable

TYPICAL PROPERTIES

Appearance:	Clear liquid. Cures to a clear tack free surfaces
Specific gravity ASTM D1475	0.1.01±0.02 @25°C
Curing efficiency BS7542	+5°C to 65°C
Drying time ASTM C309	< 20 mins
Foam	Liquid
Component	Single
Chloride content	Nil

GENERAL INFORMATION

On dense and power floated concrete may not absorb RocCureWB readily as the surface is already sealed. Carry out the test.

DIRECTIONS FOR USE

Surface should be without free water standing. Do not dilute. Apply by low pressure spray as evenly as possible to the freshly placed concrete. For horizontal Surfaces apply as soon as the surface sheen as disappeared. On vertical and formed surfaces apply immediately the formwork is removed. Delaying the application of RocCure WB until the next day will allow considerable loss of moisture, reducing the effectiveness of the curing membrane.

PACKAGING & STORAGE

Surface should be without free water standing. Do not dilute. Apply by low pressure spray as evenly as possible to the freshly placed concrete. For horizontal Surfaces apply as soon as the surface sheen as disappeared. On vertical and formed surfaces apply immediately the formwork is removed.

COVERAGE

4-6 m²/liter depending on surface texture and roughness.

HEALTH & SAFETY

As with CIL products care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes, and skin immediately, by thorough washing with clear water. RocFloorWB Harmful by inhalation, if swallowed and in contact with skin. Wear suitable gloves and eye/face protection

PRODUCT RANGE

CIL Release Agent- Solvent Based Concrete Shutter Release Agent

CIL Release Agent WB- Water based Anti-corrosive Concrete Shutter Release Agent

CIL Soil Plus- Compaction and Soil Stabilization Aid

RocCoat SS- Highly penetrative solvent based saline siloxane protective coating

RocCure AC- Acrylic based Non- Yellowing, Acrylic Curing and Sealing Compound

RocCure AL- Resin Based Aluminum Pigmented Heat Reflective Curing Compounds

RocCure CL- Resin Based Curing Compound and Surface Sealer

RocCure WB- Water Based Low Viscosity Concrete Curing Compounds

RocCure WBP- Water Based Pigmented Concrete Curing Compounds

RocCure DM- Concrete Curing and damp Proof Membrane

RocFace SR- Water Based Concrete Surface Retarder

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Disclaimer

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CIL Shutter RA

Solvent Based Concrete Shutter Release Agent



PRODUCT DESCRIPTION

CIL Shutter RA is a low viscosity liquid ready to use based on specially selected mineral oils with a chemically active release agent that is suitable for application to mould and shutter faces prior to casting concrete in order to obtain a clean release. The alkali reactive chemicals promote a water-repellent interface which protects both steel and timber formwork whilst ensuring the resultant concrete has a smooth, hard, uniform finish with reduced incidence of blow-holes.

CIL Shutter RA has no negative effect on the quality of the concrete nor it will affect the adhesion of subsequent coatings providing application is made at recommended coverage rate.

ADVANTAGES

- ▶ Ready to use
- ▶ Non-Slip
- ▶ Spray or Roller / brush application
- ▶ Built in rust inhibitors
- ▶ Produces high quality concrete surfaces
- ▶ Ready to paint or seal
- ▶ Better result on wooden formwork
- ▶ Minimizes surface defects
- ▶ Economical
- ▶ Resistant to water
- ▶ Non staining on concrete surfaces
- ▶ Easy to apply

FIELD OF APPLICATION

CIL Shutter RA is suitable for application to plywood, timber, steel and plastic faced formwork and moulds. It will provide quick and easy stripping and ensure high quality fair faced, stain free concrete.

TYPICAL PROPERTIES

Appearance:	Yellowish to Brown liquid
Specific gravity ASTM D1475	0.82±0.02 @ 25°C
Component	Single
Flash point	70°C
Chloride content	Nil

GENERAL INFO

CIL Technical Services are available on request for onsite support to assist in the correct use of CIL Products. Typically coverage of 20-50 m² / litre / coat is possible depending on the surface texture, roughness, porosity, etc.

PACKING AND STORAGE

CIL Release agent is supplied in 20 & 200ltr drums, factory quality controlled and pre-weighed units. Unopened units should be stored in shaded warehouses at less than 25°C; shelf life 18 months from date of manufacturing.

DIRECTION OF USE

Preparation: New moulds, if extensive reuse is anticipated, treat new moulds with a polyurethane coating. CIL Release agent is ready to use and should be applied by conventional mould oil sprayer, brush or sponge. CIL Shutter RA should be applied in one continuous film as thinly and evenly as possible to avoid reflectance of oil on the concrete surface. If, after the first application CIL Shutter RA is absorbed into the shutter a further application should be made. Excess material that pools should be wiped up with a sponge.

It should be noted that high coverage rates are achievable with CIL Shutter RA and that only a thin film is required. Avoid over-coating.

OUR PRODUCT RANGE

CIL Shutter RA -- Solvent Based Concrete Shutter Release Agent

CIL Shutter RA WB-- Water based Anti-corrosive Concrete Shutter Release Agent

CIL SoilPlus-- Compaction and Soil Stabilization Aid

RocCote SS-- Highly penetrative solvent based silane siloxane protective coating

RocCure AC-- Acrylic based Non-Yellowing, Acrylic Curing and Sealing Compound

RocCure AL-- Resin Based Aluminum Pigmented Heat Reflective Curing Compounds

RocCure CL-- Resin Based Curing Compound and Surface Sealer

RocCure WB-- Water Based Low Viscosity Concrete Curing Compounds

RocCure WBP-- Water Based Pigmented Concrete Curing Compounds

RocCure DM-- Concrete Curing and damp Proof Membrane

RocFace SR-- Water Based Concrete Surface Retarder

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention

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