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 a 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 maybe 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 continuos 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.

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Trials should be conducted to finalize the best method for the application. Ensure continues 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. 450 +/- 0.1 5@ 25°C.
Bond Strength ASTM D4541	Greater Than 1.5 N/mm².
Tensile Strength ASTM D412 :	Greater Than 1 N/mm²
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