

Technical Data Sheet - TDS



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RocCrete S

Highly flexible Cementitious Waterproof Coating

PRODUCT DESCRIPTION

RocCrete S 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. **RocCrete S** 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

- ▶ Waterproofing of Roof, wet area, Foundations/Tanks, Concrete marine structures
- ▶ Impervious lining for water retaining structures.
- ▶ Backing to marble/granite (Moisture barrier), preventing staining etc. Fixing tiles in water tanks.
- ▶ Protection of concrete (Exposed) 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
- ▶ Increased frost and salt resistance
- ▶ 1 mm coating provides anti-carbonation cover to over 80 cm of concrete
- ▶ Excellent adhesion,
- ▶ Non-Toxic and can be used in potable water.
- ▶ Substantial flexibility
- ▶ UV stable
- ▶ Trafficable.
- ▶ 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 TG** . If repairs have been carried out cure with water or **RocCure CL**.

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

Mixing: RocCreteS 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. RocCreteS 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 S** 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 continues supply of mixed product when adopting this surface dry (SSD). Do not apply to dry concrete. Whilst damp, apply **RocCrete S** 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.

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

As **RocCrete S** is moisture tolerant it can be applied onto concrete that is only 24 hours old thereby giving imme

diate 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 applica-

COVERAGE

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

PACKAGING & STORAGE

20 kg units (12 kg powder/ 7.5 kg liquid). Complete un-opened units should be stored in shaded warehouses away from heat, humidity or moisture. Shelf life 12 months

TYPICAL PROPERTIES

Pot life	30-45 Minutes
Mixed Density BS EN 12350 - 6	1.80 +/- 0.05 @ 25°C.
Adhesion Strength	Greater Than 8.0 N/mm ² .
Tensile Strength	Greater Than 1 N/mm ²
Toxicity BS 69201	Non-toxic
Crack Bridging Ability	➤ 1.0mm
Elongation ASTM D412	> 75% (Un- bonded)
Fire Reaction	Class A
Water absorption	➤ 95%
Water permeability	Nil

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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Hydrostatic pressure	No Leakage @50m
Tear resistance	➤ 10N/mm
Abrasion resistance	➤ 75 mg
VOV (g/L)	< 50
Service Temp(°C)	5°C-70°C
Application Temp	5°C-45°C
Full Cure	7 days
Drying Time	Min 6 hours

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

PACKAGING & STORAGE

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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Disclaimer

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