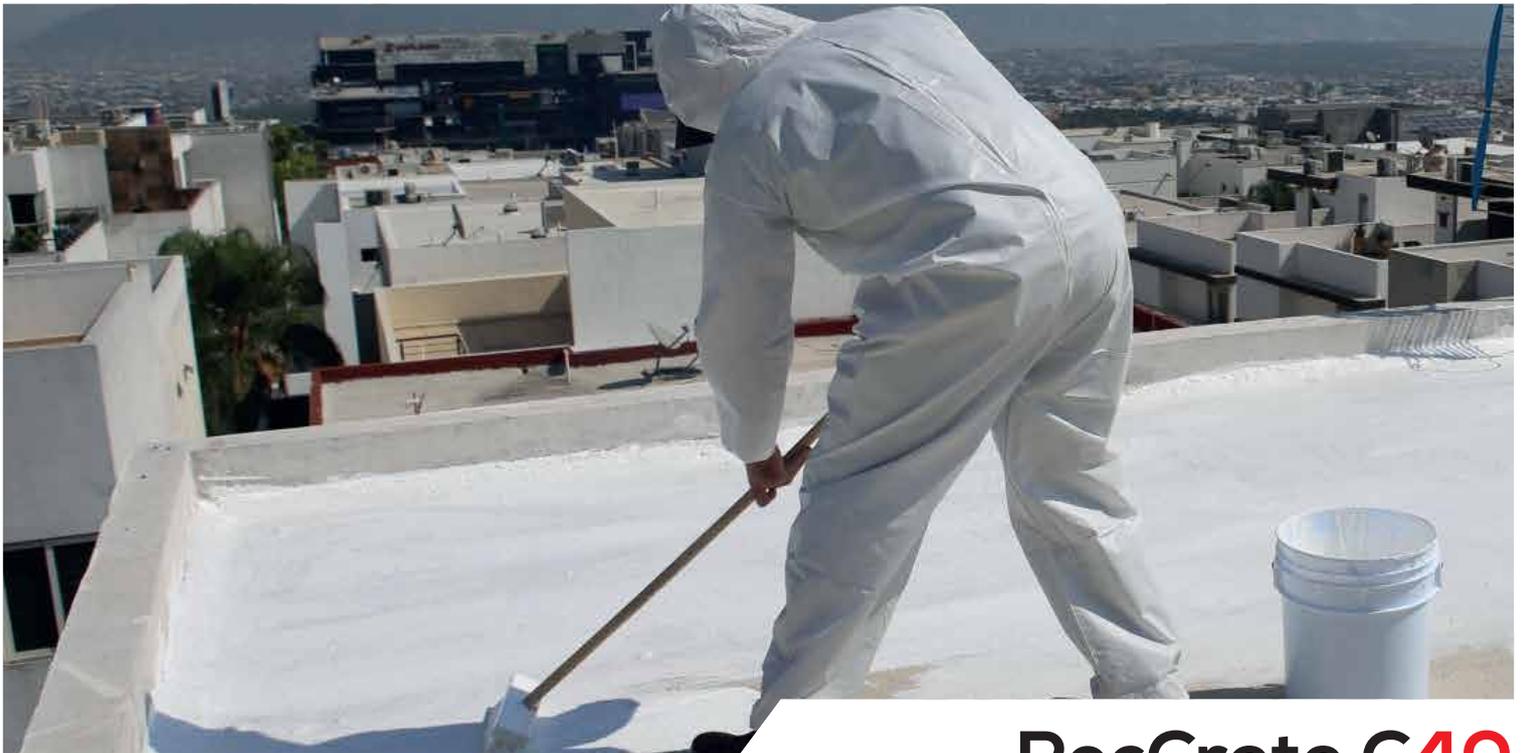


Technical Data Sheet - TDS



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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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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 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 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 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.

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.

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 CIL makes no claim that these tests or any other tests, accurately represent all environments.