



Description

ROCKY WP2K is a two-part acrylic modified cementitious coating. It is composed of special types of cement, fillers (powder), and a copolymeric acrylic

blend with chemical additives (liquid). Once mixed, ROCKY WP2K produces a tough flexible waterproofing membrane which bonds to most

concrete or masonry substrates and protects against possible ingress of water and waterborne chemicals.

Use

- Waterproofing walls made of concrete, limestone, porous concrete and brickwork
- Waterproofing of monolithic • water tanks and rainwater retention basins, pools canals
- Waterproofing coating for roofs, domes, tunnels, spillways, precast slabs and other wet areas
- Waterproofing bathrooms, showers, balconies, terraces, swimming pools etc. before laying ceramic tiles

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Advantages

- Polymer modified, therefore reduces permeability while increasing bond, flexure and tensile strength
- Withstands negative and positive water pressure
- Elastomeric, can bridge cracks up • to 1.5 mm
- Resistant against Chloride and • Sulphate ion attack
- Breathable, whilst repelling water • it allows substrate to breath
- Good adhesion, bonds to porous and non-porous substrate
- Non-toxic, can be used for potable • water tanks
- For interior or exterior use, old • and new surfaces
- Can be applied to 24 hours old concrete, thereby giving immediate protection to concrete.

COMPILIANCE STANDARD

- **ASTM D 412**
- ASTM C 836:95
- ASTM D 4541
- **DIN 1048**
- BS EN 12390
- **ASTM 543**







Technical Properties

Component A: Appearance / Density	Powder / 1.45 kg/L
Component B: Appearance / Density	Liquid / 1.0 kg/L
Density at 25°C	1.8 kg/L
Elongation (ASTM D412)	200%
Tensile Adhesion strength (ASTM D412)	> 2.0 N / mm²
Crack bridging ability (ASTM C1305)	> 2.0 mm
Resistance to Hydrostatic Pressure at 1.5 bar (BS EN 14891)	Passed
C02 Diffusion Resistance	R > 357 m Sc > 89 cm (1 mm dft) Sc – equivalent concrete thickness
Chloride Ion Diffusivity	Zero penetration at 90 days
Chloride Ion diffusion Coefficient	1.04 x 10-7 cm ² /s
Water vapour transmission	< 25 gm / m² / 24 hrs.
Resistance to following chemicals	Wastewater, Diesel, Kerosene, Engine oil, Hydraulic oil, Methyl Alcohol, Ethyl Alcohol
Pot life at 25°C	45 minutes
Initial Curing	4-5 hours
Curing Period	96 hours



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Crack treatment

Shrinkages and non-moving structural cracks less than 0.3mm shall be filled with a pre-treatment strip of ROCKY WP2K directly bridging over the crack. Static cracks that are greater than 0.3mm shall be repaired by chiseling the crack into a V-shape, to a depth and width of 25mm and priming it with PRIMER SR 200 followed by the application of Rocky-SCM cementitious repair material. Voids and honeycombs shall be patched with ROCKY SUPERIOR FINISH 3-6, a single component polymer modified fairing coat, allowing the area to cure before applying the membrane.

Right angle bends

All right-angle bends must have a coving detail installed. In areas where parapet walls, columns, pipe penetrations are present, a 45° coving fillet shall be made at all corners using ROCKY REPAIR FIBER, a Fiber reinforced shrinkage-controlled mortar for concrete repair to the water saturated cured surface.

All other angles, joints, protrusions and stress joints should be pre-treated with a heavy application of Rocky ECWP.

Priming

Highly porous concrete or concrete containing micro-silica will require priming with ROCKY SR 200, from Rocky-SCM, a synthetic, high penetrating primer.

The primer shall be applied at a rate of 5-6 m²/L and left to achieve a tack-free condition before applying the topcoat. A second coat of primer may be required if the substrate is excessively porous.

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Application

ROCKY WP2K shall be mixed with liquid at a low-speed drill and will be allowed to set for 5 minutes after mixing. Remix the product again shortly before application.

The waterproofing slurry shall be applied onto the dampened surface by a brush in 3 coats at a rate of 1.7Kg/m² to achieve a minimum dry film thickness of 1.0 mm for each coat. The three coats must be applied at right angles to one another with a 6–8-hour intervals between each application at 25°C.

The total dry film thickness shall not be less than 3mm and shall be used for positive pressure waterproofing and will be capable of forming a

flexible waterproofing layer resistant to the aggression of chemicals, Chlorides and Sulphates.

The powder should always be added to the liquid. Remixing and re-tempering shall not be permitted.

On substrates that are exposed to movements and deformation or where cracks are expected, reinforcing glass fibre mesh shall be spread into the first coat of ROCKY WP2K before applying adhesives. Tiling or finished floor installations should be carried out as soon as possible after full cure of membrane is established.

Curing and Protection

Surfaces treated with ROCKY WP2K must be kept damp and must be protected from the drying action of direct sunlight for a minimum period of 3 days after application. Protect all treated surfaces from wind and frost, by covering with plastic sheeting, damp hessian or equivalent.

Cleaning

All tools should be cleaned with water. Cured material can only be removed mechanically.

Recommendations

Store the components of ROCKY WP2K out of direct sunlight before mixing during hot weather After application, use sheets to protect the drying surface from the rapid

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Surface Preparation

The surface of the concrete shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

Moss and lichen must be removed physically followed by treatment with fungicidal wash. After treatment, it must be washed down thoroughly with clean water and allow to dry.

Coverage

- ROCKY WP2K is supplied in 20kg Pack (Part A – 10 kg powder, Part B – 10-liter liquid).
- Consumption: 1.8 kg/m² per1 mm thick coat depending on surface conditions.

Shelf Life & Storage

Store in cool, dry conditions away from direct sun light. Shelf life is 12 months from the manufacturing date.

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Health & Safety

While ROCKY WP2Kis non-toxic, skin and eye contact should be avoided. Use gloves, protective creams and goggles to avoid the contact with eyes and skin.

In case of skin contact clean immediately with a resin removing cream, followed by soap and water. In case of contact with eyes, use clean water to wash the eyes and seek doctor medical attention immediately.

Important Note

The information in this Technical Data Sheet is based on Rocky-SCM Canada's experience. Rocky-SCM does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Rocky-SCM Data Sheets are updates on regular basis. It is the user's responsibility to obtain the latest version.

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