

Rocky ECWP

Description

ROCKY ECWP is a two-component mortar composed of special type of cements, bonding agents, selected fillers and special additives (component A) and water based synthetic acrylic co-polymer (component B). When mixing the two components together a workable paste is obtained that can be applied either horizontally or vertically which adheres to concrete and masonry supports. Once hardened, it forms a waterproofing and flexible layer resistant against aggression of Chlorides and Sulphates.

Use

- Protection of concrete structures exposed to chemical aggression
- Waterproofing for water tanks, retaining walls and foundations
- Waterproofing for substrates exposed to deformation or vibration
- Waterproofing for balconies, terraces, bathrooms, kitchens, prior to floor tiling
- Waterproofing and protection of concrete and masonry in contact with soil
- To protect cracked plastering against water or steam penetration
- Maintenance on top of existing ceramic or marble flooring as a waterproof coating prior to fixing new tiles
- Waterproofing for hydraulic channels and foundations

Advantages

- For external and internal applications on both old and new surfaces
- Resistant against harsh environment
- Polymer modified, therefore reduces permeability and improves adhesion and mechanical strength
- Easy to use, which reduces labor cost
- Flexible and can accommodate fine cracks
- Breathable coating which allows substrate to breathe

Rocky ECWP

Technical Properties

Component A: Appearance / Density	Grey Powder / 1.45 kg/L
Component B: Appearance / Density	Liquid / 1.0 kg/L
Wet Density	1.8 kg/L
Elongation (ASTM D 412)	> 60%
Tensile Strength (ASTM D638)	> 1 N / mm ²
Crack Bridging (ASTM C 1305)	Up to 2 mm
Depth of Water Penetration (BS EN 12390 Pt. 8)	2.3 mm
Chloride Ion Penetration ASTM D1556 - 04	NIL
Moisture Vapor Transmission	> 300 g/m ² / day
Adhesion to concrete	> 1.0 N / mm ²
Drying Time Between Coats	8 hours
Curing Time Before Application of Tile	48 hours
Drying Time Before Waterproofing Testing	3 days
Noxiousity according to ECM 88/379	no
Workable Time	> 30 minutes
Application Temperature	from +5°C to +35°C
Service Temperature	-5°C to +80°C

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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 ECWP 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.

Mixing

ROCKY ECWP is supplied in pre-measured quantities. Pour into a clean container component B (liquid) and then add component A (powder). Mix till obtaining a homogeneous mixture free from lumps.

It is recommended to mix with an electrical drill fitted with suitable paddle, at low number of turns, to avoid air bubbles.

Rocky SWP

Application

Apply the mixture with a spatula, in at least two coats, with a thickness not more than 1 mm per coat. Before the second coat is applied make sure that the first one has hardened sufficiently.

On substrates exposed to movements deformation or where cracks are expected it is recommended to fix reinforcing glass fiber mesh into the first coat of ROCKY ECWP.

The finishing can be done with a smooth spatula, few minutes after the application.

Curing and Protection

Surfaces treated with ROCKY ECWP must be kept damp and must be protected from the drying action of direct sunlight for a minimum period of 3 days after application.

Cleaning

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

Recommendations

Store the components of ROCKY ECWP out of direct sunlight before mixing during hot weather

After application, use sheets to protect the drying surface from the rapid evaporation during dry, hot or windy conditions

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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 ECWP is supplied in bags of 25kg.
- Consumption :1.80 kg/ m² per mm of thickness.

Shelf Life & Storage

ROCKY SWP should be stored under cover away from extreme heat or direct sunlight or frost. Shelf life is 12 months if stored properly.

Health & Safety

While ROCKY SWP is 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.