

Rocky EPOX FC

Description

ROCKY EPOX FC is a two components solvent free epoxy system consisting of a colored base resin, hardener. It is suitable for chemical protection coverings of industrial pavements, reinforced concrete and metallic structures. ROCKY EPOX FC adheres perfectly to a variety of supports like concrete, metal, wood, stoneware, etc. Once cured, the product transforms to an anti-dust, chemical resistant continuous membrane. The applied coating is characterized excellent abrasive resistance and mechanical strength

Advantages

- Solvent free and odorless
- Durable and low maintenance cost
- Excellent resistance to a wide range of chemicals
- High mechanical strength, with excellent abrasion resistance
- Excellent adhesion to the substrate. Bonding strength is greater than cohesive strength of concrete
- Less labor cost to achieve the required thickness (250 microns per coat)

Use

- Car parks
- Industrial floors
- Laboratories, loading docks ramps
- Showers
- Aircraft hangers.

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Technical Properties

Appearance	Liquid coating
Color	Refer to Rocky-SCM Color Chart
Viscosity at 25°C	1500 MPa's
Density at 25°C	1.42 kg /L
VOC	8.0 g/L
Solid Content	100 %
Pot-life time at 25°C	60 minutes
Bond strength (ASTM D 4541)	2.0 N / mm ² Concrete Failure
Compressive strength (ASTM C 579)	72 N / mm ²
Flexural strength (ASTM C 580)	36 N / mm ²
Tensile strength (ASTM C 307)	20 N / mm ²
Abrasion Resistance (ASTM D 4060)	68 mg, 1000 cycles
Water Absorption (BS EN 12390)	0.05%
Open to vehicular traffic at 25°C	48 hours
Service Temperature	-5°C to +80°C
Open to foot traffic at 25°C	24 hours

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Priming

Highly porous concrete or concrete containing micro-silica must be treated with ROCKY EPOX P, a Solvent-free high-performance Epoxy primer.

In that case the primer should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 5-6 m²/Liter.

The primer should be 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.

In case of Metal substrates, the surface shall be treated with one coat of ROCKY EPOX P before the oxidation process occurs.

Mixing

ROCKY EPOX FC is supplied in two pre-weighed packs (Component A – Base and Component B – Hardener) which are ready for immediate in-situ use. Stir in both components before use.

Transfer the entire contents of component B (Hardener) into the component A (Base) can and mix with low-speed drill and paddle (200 – 300 rpm) for 2-3 minutes till obtaining a mix with uniform consistency. Scrape the sides and bottom of the can during mixing to ensure homogeneity.

Application

Apply two coats of ROCKY EPOX FC with a roller, squeegee or airless spray to the primed tack free surface at a consumption rate of 5-6m²/Liter. Each coat will be a minimum of 200-250 microns thick. The second coat shall be applied after the first coat is completely dry.

The total dry film thickness of the coating shall be a minimum of 500 microns.

For anti-slip flooring, silica sand (with suitable size) can be broadcasted on first coat in order to achieve leatherette like finish.

For heavy traffic areas such as drive lanes, ramps, turn areas, or other areas subjected to high abrasive traffic, apply a third coat ROCKY EPOX FC.

Cleaning

Tools and equipment should be cleaned immediately after use.

Hardened material should be removed mechanically.

Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

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Recommendations

ROCKY EPOX FC should not be applied onto surfaces likely to suffer from rising dampness or relative humidity > 70%
 ROCKY EPOX FC should not be applied at temperature below +5°C
 ROCKY EPOX FC should not be applied at asphalt floors or PVC tiles
 ROCKY EPOX FC should be applied internally. If used exteriors it is strongly recommended to cover with one or two coats of ROCKY EPOX FC

Surface Preparation

The surface of the concrete to be prepared 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

Concrete Substrates

The surface of the concrete to be prepared 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. Excess laitance deposits are best removed by light mechanical scrubbing, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

Any blowholes, chipping or similar surface imperfections shall be repaired using ROCKY SUPERIOR FINISH 3-6, a solvent free

epoxy resin repair mortar. Allow the repair material to harden.

New concrete or cementitious surfaces should be allowed to cure and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

Metal Substrates

All metal substrates should be blast cleaned to achieve a minimum of Sa2 ½ standard of roughness, an angular amplitude of at least 75 microns for pedestrian traffic and 100 microns for vehicular traffic. The coating system must be applied over the blasted steel surface immediately. If the standard of the surface falls below Sa2 ½ then the steel must be re-blasted.

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Excess laitance deposits are best removed by light mechanical scrubbing, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

All cracks and imperfections shall be repaired using ROCKY SUPERIOR FINISH 3-6, a cementitious fairing coat.

New concrete floors should be allowed to cure for at least 28 days before applying the primer

Coverage

- ROCKY EPOX FC is supplied 4- and 15-Liter Kits.
- Consumption: 5-6 m² / liter according to the porosity of support

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Shelf Life & Storage

Keep in tightly closed containers and in sheltered and dry place with a temperature between +5°C and +35°C. Shelf life is 12 months from date of production if stored properly

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain 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.