

# Rocky EPOX IR

## Description

ROCKY EPOX IR is a fluid epoxy resin, composed of two components that must be mixed before use. After mixing, ROCKY EPOX IR transforms into a very fluid mixture that can be injected either with special equipment or by dropping in cracks and micro-cracks. It can also be used as an adhesive for grouting and structural gluing.

ROCKY EPOX IR is solvent free and has good dielectric properties, which provides the steel reinforcement with cathodic protection.

## Use

- Structural restoring
- Consolidating of damaged concrete for beams, pillars,
- Cement screeds cracks sealing
- Vertical and oblique anchorage with high pull-out resistance, etc.
- Injecting into concrete and masonry cracks
- To seal and bond cracks widths between 0.2 to 8 mm

## Advantages

- Resistant to chemicals
- Very fluid which makes it suitable for injection in fine cracks
- Superior adhesive to substrate
- Impermeable
- Solvent free
- Non shrinkage product
- High mechanical characteristics
- Withstands hot weather conditions
- Excellent adhesion to concrete, brick and masonry

## Technical Properties

Appearance	Liquid
Color	Transparent to yellowish
Density at 25°C	1.05 kg/L
Pot life at 25°C	90 minutes
Compressive strength at 7 days (ASTM C109)	90 N / mm <sup>2</sup>
Flexure strength at 7 days	61 N / mm <sup>2</sup>
Tensile Strength at 7 days	29N / mm <sup>2</sup>
Bond Strength (BS 1881)	> 2.5 N/ mm <sup>2</sup>

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## Mixing

Pour component B (hardener) into component A (resin) and mix carefully, with an electric mixer until a homogeneous mixture is obtained.

## Application

ROCKY EPOX IR should be applied with standard injecting equipment having closed containers. The Injection Pressure should be at least 3 bar. Use injecting packers which must be inserted into predrilled holes along the length of the crack. The distance between packers depends on the crack's width and depth. After fixing packers use epoxy mortar to seal between packers to allow the resin to penetrate from one point to the next. For crack injection, it is recommended to assign the job to an injection specialist. In case of partial mixing, maintain the proportions in volume. For horizontal cracks pour the product directly. For ceiling and cracks bonding apply the product using a roller or brush.

## Cleaning

Tools and equipment should be cleaned immediately after use. Hardened material should be removed mechanically.

## Recommendations

- ROCKY EPOX IR should not be used to fill moving cracks
- ROCKY EPOX IR should not be used if there is running water pressure, stop the running water by suitable material before the product is applied

## Surface Preparation

- The support must be perfectly dry, solid, free from inconsistent parts, dust, grease, etc.
- Mortar and new concrete must be cured for at least 2 weeks.
- Running water must be stopped by using suitable material like MUREX, a rapid setting water plug mortar.

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## Coverage

- ROCKY EPOX IR is supplied as 1 Liter and 4 Liter Kits.
- Consumption: 1.1kg / 1 liter of cavity to fill.

## Shelf Life & Storage

Store in dry covered place in the original closed bags. In these conditions, the product shelf life is 12 months from production date.

## 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

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