

SUPER INJECT EP

Low Viscosity Epoxy Injection Resin

Description

SUPER INJECT EP is a low viscosity, free flowing epoxy injection resin. It consists of a base component containing solvent free epoxy resin plus a low viscosity liquid hardener after mixing transform into very fluid mixture that can easily inject in fine cracks.

SUPER INJECT EP may be placed by free flow under gravity or may be injected using a suitable hand or mechanical pump. The system gives rapid strength gain obtaining high mechanical properties. The product is non-shrink enabling complete fill of the grouting area. The hardened grout is resistant to most chemicals, stable to sea water, petroleum products and resists freeze thaw cycles.

Features & Benefits

- High fluidity, easy to inject fine cracks
- High resistance to chemicals.
- Excellent adhesion to substrate.
- Impermeable
- Solvent free.
- Shrinkage controlled.
- High mechanical properties.

Uses

SUPER INJECT EP is used for structural restoring and consolidating damaged concrete for beams, pillars, cement screeds cracks sealing, vertical and oblique anchorage with high pull-out resistance, etc.

SUPER INJECT EP is designed for general purpose grouting applications such as.

- All Crack Injection Applications
- Filling and bonding of cracked concrete surfaces.
- Structural support where thin section grouting is required.
- Structural support where dynamic load resistance is required.
- Bonding of lifted floor toppings.

Technical Properties

Appearance	Low Viscosity Resin
Color	Transparent to yellowish
Density	1,050 Kg/m ³
Pot Life	90 minutes @ 25 °C
Compressive Strength	70 N/mm ² @ 7 days
Flexural Strength	25 N/mm ² @ 7 days
Tensile Strength	17 N/mm ² @ 7 days
Bond Strength	>2.5 N/mm ²
Solid Content	100%
Complete Curing	7 days
Application temperature	+5 °C to +40 °C

All values are subject to 5-10% tolerance

Standard Compliance

- BS 5212, Part 1
- ASTM C920 type M, Grade P- Class 12

Application Procedures

Surface preparation:

The substrate should be sound, clean, free from oil and grease, old coatings and any surface treatments. Concrete, mortar or stone substrate should be cleaned by high pressure water jetting or mechanical such as grinding, chiseling etc. cracks must be cleaned by compressed air to remove dust.

Mixing Instructions:

Start mixing by pouring hardener B into base A, the two components must be well mixed to ensure proper chemical reaction. Use a slow speed drill fitted with suitable paddle to mix the product at low number of turns (200 – 300 rpm).

Mix for few minutes till a homogeneous mixture is obtained, **SUPER INJECT EP** is supplied in a pre-measured packing. Partial mixing should not be allowed under any condition

Application Instructions:

Ensure that grouting surfaces are free from dust and oily contamination. Small gaps may be blown out using clean dry compressed air. Steel should be free of rust and flaking mill scale. All work surfaces must be essentially dry.

SUPER INJECT EP should be applied with standard injecting equipment having closed containers. The Injection Pressure should be at least 3 bars. Use injecting packers which must be inserted into predrilled holes along the length of the crack. The distance between packers depends on the crack width and depth. After fixing packers use epoxy mortar (EPOREP FINISH F) to seal between packers to allow the resin to penetrate from one point to the next one.

For crack injection, it is recommended to assign the job to an injection specialist.

For horizontal floor cracks pour the product directly, material will fill the crack gap by gravity

Consumption

1.0-1.05 kg per 1 Liter of cavity to fill

Packaging

SUPER INJECT EP is available in 1 Liter & 4 Liters Two-Component Kits.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves and goggles to avoid any contact with your eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

SBI products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All SBI datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.

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