

Technical Data Sheet

Date of Issue: 1st May 2020

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Product Name: RELinforce EP Inject

Two component Low Viscous Epoxy Injection Grout for strengthening of concrete substrates.

Description

RELinforce EP Inject is a two-component solvent free low viscous epoxy grout system for injection into cracks in concrete substrate & strengthening of concrete structures.

Applications

- Sealing of cracks up to 5mm width.
- Sealing of pours in natural stones
- Fill voids in concrete Substrate to strengthen the matrix.
- Industrial heavy-duty floor toppings

Features & Benefits

- Adheres to Concrete & Mild Steel Surface well.
- Solvent Free
- Pre-weighted packing: No onsite proportioning required
- Low Viscous property allows the product to travel to smallest crevices in concrete, seal the pores & strengthen the core of concrete.
- Easy to inject

Mechanical Properties

Compressive Strength @ 25 ^o C (As per IS 6746) 7 Days	> 60 MPa
Tensile Strength @ 25 ^o C (As per ASTM D638) 7 Days	> 35 MPa
Flexural Strength @ 25 ^o C (As per ASTM D 790) 7 Days	> 40 MPa
Bond Strength @ 25 ^o C Concrete	> 2 MPa (Concrete Failure)

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Component Details & Physical Property

	Base	Hardener	Mixed
Feel	Liquid	Liquid	Liquid
Color	White	Light Yellow	Light Yellow
Mixing Ratio	100	40	-
Mixed Density	1.10-1.15	1.00 – 1.05	1.08 – 1.12
*Pot Life @ 25 ^o C			110 - 130 minutes
*Viscosity @ 25 ^o C			200 - 300 cps
Application Thickness			< 5 mm
Change in Volume			No Shrinkage Observed
Yield (Pack)	4 kg	2 kg	5.45 lit / 6 kg

** Ambient Temperature will affect the Pot life & Setting Time of the Product & is inversely related*

Mixing Procedure

- Full Pack Mixing is ideally suggested for accurate result
- Part Mixing suggested only if precise proportioning facility available at site.
- Mechanical Mixing using low speed stirrer is suggested.
- Mixing till uniform color achieved of the mixed material.

Application Procedure

- Surface to be clean of Oil, Grease, dust, curing compound & any other material which will affect the adhesion of *RELinforce EP Putty* to Substrate
- *RELinforce EP Putty* to be used to fix the appropriate Nozzle to concrete substrate
- Nozzle spacing to be as per the specification given by the structural consultant
- Substrate Residual Moisture to be less than 4%.
- Injection Process to be carried out in sequence from lower port to higher port on a continual path basis.

Packaging Size

- Base: 4 kg
- Hardener: 2 kg

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Shelf Life

- Base: 12 Months
- Hardener: 12 Months

Storage Condition

- Material to be stored in cool dry place
- To be kept under shade with no direct sunlight

Health & Safety Hazard Condition

Please refer to MSDS for detailed information on the health & safety hazard while using the product.

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