

Technical Data Sheet

Date of Issue: 1st May 2020

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Product Name: RELinforce EP Pile Grout

Three component medium flow, moisture insensitive Epoxy Grout for strengthening of piles using encapsulation technique.

Description

RELinforce EP Pile Grout is a three-component medium flow, moisture insensitive Epoxy Grout system for filling the gap between the pile & pile encapsulation medium for strengthening & corrosion protection of piles.

Applications

- Sealing of gap from 2mm- 10mm width.

Features & Benefits

- Adheres to Concrete, Mild Steel Surface and certain composite surface.
- Solvent Free
- Pre-weighted packing: No onsite proportioning required
- Medium Flow property allows the product to travel under pressure 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

	Part A - Base	Part B - Hardener	Part C - Filler	Mixed
Feel	Liquid	Liquid	Solid	Flowable Paste
Color	Transparent	Pale Yellow	White	Pale Yellow
Mixing Ratio	100	50	200	-
Mixed Viscosity				11000 - 12000 @ 25 ^o C
Mixed Density	1.10 - 1.15	1.00 - 1.05	2.40 - 2.50	1.60 - 1.70
*Pot Life @ 25^o C				~ 50 mins for 100 gms ~ 30 mins for 5 Kg ~ 10 mins for 14 Kg
Peak Exotherm, ^o C				80 for 5 Kg in water
Application Thickness				2 -10 mm
Change in Volume				No Shrinkage Observed
Yield (Pack)	4 kg	2 kg	8 Kg	14 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 Pile Grout* to Substrate
- *RELinforce EP Pile Grout* to be pumped using appropriate pumping machine
- Injection Process to be carried out in sequence from lower port to higher port on a continual path basis.

Packaging Size

- Part A – Base: 4 kg
- Part B - Hardener: 2 kg
- Part C – Filler: 8 Kg

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Shelf Life

- Base: 12 Months
- Hardener: 12 Months
- Filler: 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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