

Technical Data Sheet

Date of Issue: 1st May 2020

Page 1 of 3

Product Name: RELINFORCE EP Mortar

Three component trowellable mortar, moisture insensitive Epoxy Mortar for strengthening of piles using encapsulation technique.

Description

RELINFORCE EP Mortar is a three-component medium flow, moisture insensitive Epoxy Mortar system for filling up the large undulations on the concrete surface.

Applications

- Sealing of gap which are more than 10mm width.

Features & Benefits

- Adheres to Concrete, Mild Steel Surface and certain composite surface.
- Solvent Free
- Pre-weighted packing: No onsite proportioning required
- Moisture Insensitive
- Easy to apply

Mechanical Properties

Compressive Strength @ 25 ^o C (As per IS 6746) 7 Days	> 45 MPa
Bond Strength @ 25 ^o C Concrete	> 2 MPa (Concrete Failure)

Technical Data Sheet

Date of Issue: 1st May 2020

Page 2 of 3

Component Details & Physical Property

	Part A - Base	Part B - Hardener	Part C - Filler	Mixed
Feel	Liquid	Liquid	Solid - Sand no. 10	
Color	Light	Dark Yellow	White	Pale Yellow
Mixing Ratio	100	50	400 – Flowable type 500 – Trowellable Mortar	-
Mixed Viscosity				Paste @ 25 ^o C
Mixed Density	1.1 – 1.2	0.95-1.05	2.40 - 2.50	1.94 – 2.14
*Pot Life @ 25^o C				~ Dry Time – 5-7 hours ~ Full cure – 24 Hours
Peak Exotherm, ^o C				80
Application Thickness				As per the Undulations
Change in Volume				No Shrinkage Observed
Yield (Pack)	5 kg	2.5 kg	25 Kg	32.5 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 Mortar* to Substrate
- *RELINFORCE EP Mortar* to applied using appropriate tools like trowel, spatula, etc.

Packaging Size

- Part A – Base: 5 kg
- Part B - Hardener: 2.5 kg
- Part C – Filler: 25 Kg

Technical Data Sheet

Date of Issue: 1st May 2020

Page 3 of 3

Shelf Life

- Base: 24 Months
- Hardener: 24 Months
- Filler: 24 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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