

Technical Data Sheet

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Product Name: RELinforce EP Putty

Two Component Thixotropic Moisture Sensitive Epoxy Putty for Levelling Surfaces

Description

RELinforce EP Putty is a two-component solvent free thixotropic epoxy based filled system for levelling concrete surface & metal surfaces with superior bonding characteristics

Application Areas

- Filling Pin Holes & Pore appearing on Concrete Surfaces before subsequent Resin Application
- Repairing Surface Defects in Concrete in Horizontal, Vertical & Overhead Applications
- Structural Bonding for Carbon Fiber Rods
- Installation of Injection Ports for Resin Injection
- General Purpose Adhesive for Concrete, Hard Natural Stone, Ceramics, Fiber Cement, Mortar, Bricks, Blocks, Masonry, Steel, Iron, Aluminum, Wood, Epoxy.
- Levelling Layer on Metal Surface before application of RELinforce Fabric System for Retrofitting.

Features & Benefits

- Adheres to Concrete Surfaces & Mild Steel Surface well.
- Solvent Free
- Pre-weighted Packing: No onsite proportioning required
- Thixotropic with easy overhead application, apart from horizontal & vertical application
- Easy to apply
- Moderate Chemical Resistance

Mechanical Properties

Compressive Strength @ 25 ^o C (As per IS 6746) 7 Days	>50 MPa
Tensile Strength @ 25 ^o C (As per ASTM D638) 7 Days	>14 MPa
Flexural Strength @ 25 ^o C (As per ASTM D 790) 7 Days	>30MPa
Bond Strength @ 25 ^o C Concrete	>2 MPa (Concrete Failure)

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Component Details & Physical Property

	Base	Hardener	Mixed
Feel	Paste	Paste	Paste
Color	Ivory	Golden Yellow	Golden Yellow
Mixing Ratio	100	60	-
Mixed Density			1.3 - 1.4
*Pot Life @ 25 ^o C			40 – 60 mins for 100 gms 10 – 15 mins for 9.6 Kg
*Setting Time @ 25 ^o C			10 hours
Application Thickness			< 3mm
Change in Volume			No Shrinkage Observed
Yield (Pack)	6 kg	3.6 kg	7.2 lit / 9.6 kg Combined Pack

Note:

- * 1. Ambient Temperature will affect the Pot life & Setting Time of the Product & is inversely related.
- 2. Minimum Application temperature is 20^o C & substrate temperature is 20 -40^o C

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, mould release agent & any other material which will affect the adhesion of *RELinforce EP Putty* to Substrate
- Appropriate Methodology to be adopted to achieve sound substrate for application of *RELinforce EP Putty*
- In case of concrete, smaller loose portion to be removed & faired with *RELinforce EP Putty*
- Substrate Residual Moisture to be less than 4%. Not to be applied on substrate with rising dampness.
- Apply the mix material with spatula or trowel over the substrate to achieve required thickness.
- Application to ensure all pinholes & surface undulation is covered.
- **For filling of bigger holes or for building more thickness, *RELinforce Putty Filler* must be added in this system [Refer *RELinforce Putty Filler* product datasheet]**

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Packaging Size

- Base: 6 kg
- Hardener: 3.6 kg

Shelf Life

- Base: 12 Months
- Hardener: 12 Months

Storage Condition

- Material to be stored in cool dry place
- To be kept in 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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