

Solvent Free, Epoxy Mortar Grout for General Repairs of Reinforced Concrete Structure and Increase Loading

General & Properties Epoxy Mortar Grout for horizontal application, repairs of degraded R. C structural, non-shrink adjusting mortar grout with high compressive strength. It has high reactivity, good chemical resistance. Solvent-free epoxy based, Highly fluid, phenol-free, modified cycloaliphatic polyamine hardener, low viscosity, easy processing, high reactivity, short curing times, good curing properties even at low temperatures (as of + 5°C) and high humidities. Good mechanical resistance (high loading capacity values). Good resistance to aqueous solutions of alkalis, salts and inorganic acids, aliphatic and aromatic hydrocarbons.

Used Area Application Bridge Bearing Pad, Machinery Base Plate, Pillars, Beams, Columns Load Bearing, Prefab Concrete, Structural Support Load Capacity and Flooring.

Preparation Concrete must cured at least 28 days and have with minimum Compressive Strength of 5,000 psi. Those cement slurry, plaster droppings, etc. must be remove, the surface of concrete free of oil, grease, and other loose particles and contamination's.

Method of Mixing Part A- **Epoxy** Resin pours into steel pail and mixing with Sand.
Part C- Filler sand with use the mixer. After mix for 3 – 5 minutes, add
Part B- **Epoxy** Hardener mixing for approx. 3 – 5 minutes.

Mix materials with low speed drill and paddle for approximately Four minutes. Insure a thorough mix. Never mix more material than can be used in fifteen (15) minutes. Do not apply Epoxy when ambient or surface temperatures are below 50 °F

Method of Application Apply first layer of primer, after primer coat has been cured, Laying **Epo Bond Mortar**, by steel trowel and screeds exhibit a very smooth finish, can be kept in spotless hygienic condition and are of attractive appearance. Screed thickness usually varies from 10 to 50 mm thick per each layer.

Advantages Provides excellent chemical and abrasion resistance, high compressive strength, and excellent bond strength.

Mechanical Performance of Properties

		Epo Bond Mortar 75 General Purpose Grade	Epo Bond Mortar 110 High Flow Grade
Specific Gravity	[kg/litre]	2.00 (± 0.10)	2.00 (± 0.10)
Compressive Strength	25°C [N/mm ²]	75 (± 5)	110 (± 5)
Tensile Strength	25°C [N/mm ²]	11 (± 0.5)	18
Flexural Strength	25°C [N/mm ²]	30 (± 0.5)	42
Pot Life cured	25°C [minute]	15	20
Traffic Cured	25°C [hour]	12	24
Bonding cured	25°C [h]	06	12
Service Temperature	[°C]	- 05 °C/Max. 60 °C	- 05 °C/Max. 60 °C
Application Temperature	[°C]	Min. 10 °C/Max. 38 °C	Min. 10 °C/Max. 38 °C

Packing: Epo Bond Mortar 75 # 25 kg / pack
Epo Bond Mortar 110 # 25 kg / pack

Available of Color Standard Natural

Storage 12 months from date of manufacture in original sealed container stored undercover 25 °C, at ambient temperature away from heat, and dry conditions. For clearing equipment, use special solvent liquid.

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