



HIGH TECH EPOXY BEDDING REPAIR MORTAR

Non-Sagging, Thixotropic Epoxy Bedding and Repair Mortar

DESCRIPTION

HIGH TECH EPOXY BEDDING REPAIR MORTAR is a non-sagging and easy workable epoxy repair mortar made from a combination of epoxy resin and specially blended fillers.

It provides excellent adhesion to most construction materials and offers exceptional high strength and durability for vertical, overhead and horizontal applications.

PROPERTIES

- Excellent adhesion to most substrates.
- High tensile and flexural strength.
- Resistant to oil, grease, salts and most acids and alkalis.
- Non-sagging properties allows for vertical, overhead and horizontal applications, with ease.
- High abrasion resistance.
- High chemical resistance.
- Approved for use in contact with potable water.

RECOMMENDED USES

- Dowel bars and chemical anchoring.
- Grouting machinery and crane bridge bearings.
- Repairing concrete surface defects or for honeycombing.
- Fixing slip joints to concrete.
- As a gap filling adhesive.
- Filling bolt and other concrete pockets.
- Bedding tiles.

TECHNICAL DATA

Type	Two Component Epoxy Mortar
Color	Concrete Grey
Form	Thixotropic Paste
Mixed Density	1.80 ± 0.05 g/cc
Compressive Strength @ 7 days	≥ 60 MPa
Flexural Strength @ 7 days	≥ 20 MPa
Tensile Strength @ 7 days	≥ 15 MPa
Adhesion to Concrete	≥ 2.25 MPa
Application Temperature	+5°C to +35°C
Service Temperature	-20°C to 80°C
Pot Life @ 25°C	50 – 60 minutes
Initial Set Time	90 – 120 minutes
Final Set Time	6 – 8 hours
Full Cure	7 days
Coverage	Depends on application
Shelf Life	12 Months



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APPLICATION GUIDELINES



SUBSTRATE PREPARATION

The substrate must be clean, dry or mat damp (no standing water) and free from contaminants such as oil, grease, paint, curing compounds, laitance or any loose particles. Remove weak concrete and open the pores by wire brushing or light sand blasting. Pre-wet the surface thoroughly before application. Surface should be damp but free of standing water.



MIXING

Take required quantity of Part A (resin) in a clean container. Add Part B (hardener) in the specified ratio (as per pack instructions) and mix slowly using a low speed drill (300–500 rpm) with a suitable paddle for 3 – 5 minutes until a uniform color and consistency is achieved. Do not mix more material than can be used within the pot life.



APPLICATION

Apply the mixed mortar using a trowel, putty knife or suitable tool on the prepared surface. Press firmly to ensure proper contact and compact the mortar well. For repair works, build up in layers if required. Minimum thickness per layer: 5 mm.



CURING

Protect from disturbance, heavy loads and water exposure for at least 24 hours. Full strength is achieved in 7 days at 25°C. Lower temperatures will extend the curing time.

CHEMICAL RESISTANCE

Acids	Resistance
10% Acetic Acid	+
25% Acetic Acid	+
10% Hydrochloric Acid (pH 3)	+
25% Hydrochloric Acid	+
10% Sulfuric Acid	+
25% Sulfuric Acid	+
10% Nitric Acid	-

Bases	Resistance
10% Soda (pH 8)	+
25% Soda	+
20% Potassium Chlorate	+
25% Potassium Chlorate	+
Miscellaneous	
Water	++
Sea Water	++
Brine	+

Oil & Solvents	Resistance
Engine Oil	++
Methanol	-
Formol	-
Ethanol	-
Glycol	++
Acetone	-
MEK	-
Toluene	-
Xylene	-
Chloric Solvents	-
Aliphatic Solvents	+
Petrol	-

++ Excellent Resistance + Good Resistance - Poor Resistance



PACK SIZE

1 KG Pack



CONSUMPTION

Approx. 1.8 – 2.0 kg/m² per mm thickness (varies with surface profile and application).



STORAGE

12 months from the date of manufacture when stored in original unopened packaging in a cool, dry place protected from direct sunlight. Storage temperature below 25°C.

APPLICABLE STANDARDS

- ASTM C 881 / C 882
- ASTM C 579 (Compressive Strength)
- ASTM C 293 (Flexural Strength)
- BS EN 1504-3 Class R4

DISCLAIMER

The information provided in this Technical Data Sheet is based on our testing and practical experience. However, since site conditions and application methods are beyond our control, no warranty is given or implied regarding the accuracy or suitability of the information for any particular use. The user must determine the suitability of the product for its intended application.

SAFETY PRECAUTIONS

- Wear protective gloves and goggles.
- Avoid contact with eyes and skin.
- In case of contact, wash with plenty of water.
- Do not inhale vapors.
- Keep out of reach of children.
- Store in cool and dry place.

