

TECHNICAL DATA SHEET

EPOXY MORTAR

Heavy duty Mouldable Epoxy Mortar System

DESCRIPTION

Epoxy Mortar is a high-strength hand mouldable heavy-duty epoxy mortar suitable for a wide variety of uses. It is an economical high-build mortar that is extremely versatile, waterproof and paintable. It is a 2-part system with the Resin and Mortar coming in different colours for easy recognition. It is concrete grey in its harden state.





SPECIAL PROPERTIES

- Simple 1:1 Mix ratio.
- Two colours differentiate resin and hardener.
- Close match to new concrete.
- High compressive, tensile & flexural strengths.
- Adheres well to wet or submerged concrete or steel.
- Interior | exterior application.
- User friendly. Easy mix recognition
- Hand mouldable.
- Highly durable and paintable.
- Chemically resistant mortar.
- Non-Shrink

USES

- Structural repairs to concrete structures.
- Underwater application as well as to dry surfaces
- Widely used on structural precast panels, bridge tees & other precast components.
- Repair of submerged concrete and steel structures, sea walls, jetties, etc.
- Bonding pipes, concrete and PVC. Bends in concrete pipes.
- Setting bolts into concrete. Horizontal and vertical.
- Re-forming edges; stair nosing's, usable overhead.
- Filling holes, forming plinths. Fixing floors, tanks, concrete blocks, kerbs.
- Plugging of ducts prior to grouting.

SURFACE PREPARATION

The surface to be filled/repared must be clean and sound. Remove all dust, dirt, oil, scale, laitance, paint or any other contaminants.

Concrete: Acid etch, Shot blast, Diamond grind or Needle gun.
Metals: Degrease with Acetone, Abrade with medium grit abrasive paper, Degrease with Acetone again.

MIXING INSTRUCTIONS

Mix Epoxy Mortar carefully according to the stated mix ratio. Mix until uniform and no streakiness is evident. (Uniform grey colour) May be hand mixed and moulded. Mixing is often easiest with spade on the floor.

Mix Ratio:

Part A 1 part : Part B 1 part

PACKAGING AND SIZE

Epoxy Mortar is available in 8lt packs (4lt Resin & 4lt Hardener) and 20lt/36kg packs (10lt Resin and 10lt Hardener).

IMPORTANT NOTES

Not recommended for Application below 12°C air temperature, application to unsound substrates, application to incorrectly prepared surfaces or bonding to Polypropylene and polyethylene.

Potable water if the tank being mortared is for potable water use/storage. Take care to ensure the mix ratio is 1:1 and that the mortar is very uniformly mixed. Allow to cure and then wash and rinse out the tank prior to filling. Suitable for potable water when mixed and cured correctly.

HEALTH & SAFETY

When handling or mixing Rockbond Epoxies use common sense safety practices to help prevent health problems refer to the Material Safety Data Sheets (MSDS) for detailed product safety information. Avoid contact with food stuffs and utensils. Wear protective equipment (goggles, safety glasses, gloves, respirators, protective clothing etc) appropriate for the job at hand. Avoid contact with resins, hardeners, mixed epoxy and sanding dust from partially cured epoxy. Barrier creams provide added protection. If resin, hardener or mixed epoxy comes into contact with skin, remove it as soon as possible using lanolin based water cleaner and not solvents. Avoid breathing concentrated vapours and sanding dust. Rockbond epoxies have low VOC's but vapours can build up in unvented spaces. If the eyes or mouth are affected wash with clean water and obtain medical attention. Do not dispose of these materials as liquids but make sure they have been mixed and cured to a solid inert state.

TECHNICAL DATA

Compressive Strength:	60-70 MPa
Tensile Strength:	40 MPa (approx)
Tensile Shear Strength:	10 MPa (approx)
Flexural Strength:	25 MPa (approx)
Pot Life:	20°C 15 – 40 minutes
Yield:	2m2 @1mm thick
Cure Time:	Initial Cure - 24 hours Full Cure - 3-7 days
SG kg/litre:	Resin: 1.85 Hardener 1.80
Coverage:	1 litre covers 1 m ² @ 1mm thickness
NZ DG Class:	Resin: Class 9 Packing Group III Hardener: Not regulated
Shelf Life:	24 months from date of manufacture

PERFORMANCE DATA

Minimum application temperature: Air	+12°C
Flash Point:	>100°
Tensile strength:	40 MPa (approx)
Tensile shear strength:	10 MPa (approx)
Compressive strength:	60-70 MPa
Flexural strength:	25 MPa (approx)
Solids:	100%
Density:	2%
Hardness:	90%
VOC (g/kg):	<10%
Potable water contact: Contact delay time with potable water after application.	Suitable – Refer: Note #1. – Below Above +12°C minimum 24 hrs Below +12°C minimum 48
Adhesion properties to correctly prepared surfaces: ~ Concrete ~ PVC ~ Polyethylene ~ Polypropylene ~ Timbers	hrs Excellent Excellent Poor Refer: Note #2. –Below Poor Refer: Note #2. –Below Excellent
Appearance: ~ Resin ~ Hardener	Very thixotropic white mixture Very thixotropic black mixture

Note #1. Potable water: if the tank being mortared is for potable water use/storage. Take care to ensure the mix ratio is 1:1 and that the mortar is very uniformly mixed. Allow to cure and then wash and rinse out the tank prior to filling. Suitable for potable water when mixed and cured correctly.

Note #2. For bonding around Polyethylene & Polypropylene pipes in tanks/troughs etc. use LM3000 followed by the use of RB8.04.

TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our **Technical Sales Team: +64 4 568 5401**