

Five Minute Epoxy Mortar

EPAR 5 Minute Epoxy Mortar

TECHNICAL DATA

1.0 DESCRIPTION

Two part, low-slump epoxy mortar with 5-minute gel times formulated to give a strong bond to dry or damp concrete, steel, glass, aluminium etc. Non-shrink with excellent chemical resistance.

2.0 PROPERTIES

2.1. Viscosity	Low Slump
2.2. Mix Ratio	1:1 by weight or volume
2.3. Pot Life	Less than 5 minutes at 25°C
2.4. Minimum Application Temp.	-5°C
2.5. Shelf Life	1 year in original unopened containers
2.6. Cured Properties	(at 20°C – full cure after 7 days)
2.6.1. Colour	Grey, blends with most normal concrete.
2.6.2. Specific Gravity	1.78

3.0 USES

5-minute Epoxy Mortar systems are used where a 5-minute gel time and over 90% cure in 1 – 2 hours is required. Typically, they are used in applications where short curing times are essential. Also, 5-minute mortars may be used where cold and damp conditions are experienced.

Common uses for a 5-minute epoxy mortar include the following:

- 3.1 Bedding and jointing of precast concrete units.
- 3.2 Repair of damaged or spalled concrete and protection of reinforcing.
- 3.3 Levelling and patching of concrete floors under heavy load or impact.
- 3.4 Grouting of starter bars and bolts particularly horizontal or overhead.
- 3.5 Fabrication of concrete pipe intersections and general drainage work, including underground work.
- 3.6 Raised pavement markers (road markers).

Important: 5-minute epoxies are liable to creep and are therefore not suitable in applications where they are subject to a high constant load in one direction. In these circumstances, use a standard cure epoxy.

4.0 APPLICATION

- 4.1. **SURFACE PREPARATION:** Thoroughly clean the jointing surfaces of all extraneous matter, especially oil and grease. Laitence should be removed from concrete surfaces mechanically or by acid etching. For best results, steel surfaces should be prepared by sand blasting or grinding. All surfaces should be dry.

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TECHNICAL DATA Continued

- 4.2. **MIXING PROPORTIONS:** 1: 1 by volume or weight. Mix the two parts THOROUGHLY by machine, spatula, or by hand until a uniform grey colour is obtained. Wear protective gloves during mixing and application. Thoroughly wet gloves in water to prevent sticking of EPAR. Shake off excess. Avoid mixing water with EPAR as this may interfere with the final set and hardness.

Avoid mixing large amounts of EPAR 5-minute mortar that can not be used within the pot life of 5 minutes at 25°C.

- 4.3. In cold weather the resin and hardener may be softened by placing the containers in hot water.
- 4.4. **APPLICATION:** EPAR 5-minute mortars should be worked well into the surface to be filled or bonded. Initially a thin smear should be applied to ensure the surface is properly 'wet' with epoxy. After applying this initial layer more EPAR may be applied to the desired thickness. Both surfaces should be coated with EPAR before being joined. A smooth surface can be obtained by wiping with a wet cloth or trowel.

If being placed under water, avoid involving water into the mixed EPAR. Use minimum amount of handling when placing and finishing.

- 4.5. **CLEAN UP:** Hands and equipment should be washed with soap and water before curing is advanced.

5.0 PACKAGING

1.8 kg pack (2 x 900 gm) - approx. volume 1 litre

3.6 kg pack (2 x 1.8 kg) - approx. volume 2 litres

8 Litre pack



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