

# Fast Setting Epoxy Mortar EPAR EM Fast Set

## TECHNICAL DATA

### 1.0 DESCRIPTION

Two part, low-slump easy-mix epoxy mortar with a 15-minute gel time formulated to give a strong bond to dry or damp concrete, steel, glass, aluminium etc. EPAR EM Fast Set epoxy is non-shrink and has excellent chemical resistance. EPAR EM Fast Set epoxy will set in temperatures down to 7°C.

### 2.0 PROPERTIES

2.1.	Viscosity	Low Slump
2.2.	Mix Ratio	1:1 by weight or volume
2.3.	Pot Life	Less than 15 minutes at 25°C
2.4.	Minimum Application Temp.	7°C
2.5.	Shelf Life	1 year in original unopened containers
2.6.	Cured Properties	Tested at 15°C
2.6.1.	Initial cure in 1 – 2 hours, full cure after 7 days. Curing will be slower at low temperatures.	
2.6.2.	Compressive Strength	
	1 day	44 MPa
2.6.3.	Colour	Grey, blends with most normal concrete.
2.6.4.	Specific Gravity	1.78

### 3.0 USES

EPAR EM Fast Set epoxy system is used where a 15-minute gel time is required and good bond strength is obtained in 1 – 2 hours. Typically, it is used in applications where short curing times are essential. Also, 15-minute mortars may be used where cold and damp conditions are experienced.

Common uses for a 15-minute epoxy mortar include the following:

- 3.1 Fabrication of concrete pipe intersections and general drainage work, including underground work.
- 3.2 Bedding and jointing of precast concrete units.
- 3.3 Repair of damaged or spalled concrete and protection of reinforcing.
- 3.4 Grouting of starter bars and bolts particularly horizontal or overhead.
- 3.5 **Important:** 15-minute epoxies may 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 (EPAR EM).

### 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.

# EPAR EM Fast Set

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## TECHNICAL DATA Continued

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- 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. For hand mixing, the use of protective gloves and a barrier cream is recommended. Thoroughly wet protected hands in water to prevent sticking of EPAR. Shake off excess. Avoid mixing water with EPAR EM Fast Set as this may interfere with the final set and hardness.

Avoid mixing large amounts of EPAR EM Fast Set mortar that can not be used within the pot life of 15 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 EM Fast Set 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 EM Fast Set may be applied to the desired thickness. Both surfaces should be coated with EPAR EM Fast Set before being joined.
- 4.4.1. A smooth surface can be obtained by wiping with a wet cloth or trowel before initial cure.
- 4.5. If being placed under water, avoid involving water into the mixed EPAR EM Fast Set. Use minimum amount of handling when placing and finishing.
- 4.6. CLEAN UP. Equipment should be washed with soap and water before curing is advanced. Hands should be washed with soap and water immediately after use. Reapply barrier cream. Refer to Material Safety Data Sheet for handling information.

## 5.0 PRECAUTIONS

15-minute epoxies may 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 (EPAR EM).

For potable water contact, use EPAR EM standard. Refer to EPAR EM data sheet for details.

## 6.0 PACKAGING

- 2 Litre pack
- 8 Litre pack
- 20 Litre pack



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