

Fifteen Minute Epoxy Mortar

EPAR 705 & EX 15-Minute Epoxy Mortar

TECHNICAL DATA

1.0 DESCRIPTION

Two part, low-slump epoxy mortars with 15-minute gel times formulated to give a strong bond to dry or damp concrete, asphalt, steel, glass, aluminium etc. Both EPAR 705 & EPAR EX 15-minute epoxies are non-shrink and have excellent chemical resistance.

2.0 PROPERTIES (typical)

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.	0°C
2.5. Shelf Life	1 year in original unopened containers
2.6. Cured Properties at 20°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. Colour	Grey, blends with most normal concrete.
2.6.3. Specific Gravity	1.78

3.0 USES

EPAR 705 & EX 15-Minute systems are used where a 15-minute gel time is required and good bond strength is gained in 1 – 2 hours. Typically they are used in applications where short initial curing times are essential.

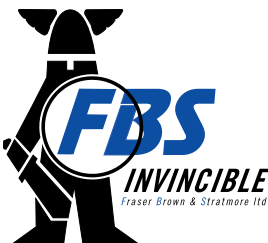
Common uses for a 15-minute epoxy mortar include the following:

- 3.1 Adhering raised pavement markers (road & house number markers) to both concrete and asphalt surfaces. EPAR 15-minute epoxy mortars do not require specialised heating, mixing or pouring equipment. The amount required to adhere the road marker may be mixed and used immediately.
- 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.

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.

For Road Markers, the surface should be clean, dry and free of petrol, diesel, oil and other contaminants that may interfere with the bond strength between the marker and the road. Remove debris, dirt and dust with clean compressed air. Ideally, the surface should be cleaned in the same manner as for adhering road markers with hot-melt bitumen.



Fraser Brown & Stratmore Ltd

Address: 185 Rata Street, PO Box 35136 Naenae, Lower Hutt, New Zealand

Telephone: 04 567 8436 Freephone: 0800 835 699 Facsimile: 04 567 7232 Freefax: 0800 FIBRES (342 737)

Website: www.fbsltd.co.nz Email: info@fbsltd.co.nz

The information contained in this data sheet, is to the best of our current knowledge, true and accurate, but any recommendations or suggestions which may be made are without liability on our part, since the conditions of use are beyond our control. Buyers and users are urged to make their own assessment of our products under their own conditions and for their own requirements. Fraser Brown & Stratmore Ltd reserves the right to alter formulations without notice. Properties as stated were determined under controlled laboratory conditions.



Registered No. 1210
FBS 0801

EPAR 705 & EX 15-Minute Epoxy

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. For hand mixing, the use of rubber gloves and a barrier cream is recommended. Thoroughly wet hands 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-15 minute mortar that can not be used within the pot life of approximately 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-15 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-15-minute mortar may be applied to the desired thickness. Both surfaces should be coated with EPAR 15-minute mortar 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.

ROAD MARKER APPLICATION

To adhere road markers to bitumen or concrete, simply mix a small amount of epoxy (a walnut size ball of hardener and a walnut sized ball of resin will typically be satisfactory) and when thoroughly mixed, apply to the back of the marker. Ideally, the marker should have a rough surface (dimples, corrugations, etc) to help ensure a good bond between the epoxy and the road. Position the road marker in place and apply foot pressure ensuring that the epoxy spreads from underneath the marker to its edges. Allow at least 15-minutes curing before opening road to traffic.

- 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 (EPAR 705 only)

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

16 kg pack (2 x 8 kg) - approx. volume 9 litres (EPAR 705 only)

5-minute versions also available.



Fraser Brown & Stratmore Ltd

Address: 185 Rata Street, PO Box 35136 Naenae, Lower Hutt, New Zealand

Telephone: 04 567 8436 Freephone: 0800 835 699 Facsimile: 04 567 7232 Freefax: 0800 FIBRES (342 737)

Website: www.fbsltd.co.nz Email: info@fbsltd.co.nz

The information contained in this data sheet, is to the best of our current knowledge, true and accurate, but any recommendations or suggestions which may be made are without liability on our part, since the conditions of use are beyond our control. Buyers and users are urged to make their own assessment of our products under their own conditions and for their own requirements. Fraser Brown & Stratmore Ltd reserves the right to alter formulations without notice. Properties as stated were determined under controlled laboratory conditions.

