Easy Mix
Epoxy Mortar Putty
EPAR EM

TECHNICAL DATA

1.0 DESCRIPTION

A two part, low-slump easy-mix epoxy mortar specially formulated to allow hand mixing. Adheres strongly to dry or damp concrete, steel, glass, aluminium, etc. EPAR EM is non-shrink and has excellent chemical resistance. EPAR EM is AS/NZS 4020:2005 compliant for contact with potable water up to 40°C and an immersion exposure level of up to 15,000mm² epoxy per litre of water. For specific test details, refer to the AMS Laboratories Pty Ltd, NSW, Australia test report which can be obtained from Stratmore Construction Solutions Ltd on request.

2.0 PROPERTIES

2.1.	Viscosity	Non-Slump
2.2.	Mix Ratio	1:1 by weight or volume
2.3.	Pot Life	1 – 1.5 hours at 20°C
2.4.	Minimum Application Temp.	7°C
2.5.	Shelf Life	1 year in original unopened containers
2.6.	Approvals	Approved for contact with potable water up to 40°C when fully cured (7 days).
2.7.	Cured Properties (at 20°C)	
2.7.1.	Colour	Grey, blends with most normal concrete.
2.7.2.	Specific Gravity	1.8
2.7.3.	Compressive Strength	
	1 day (24 hours)	63MPa
	7 days	84MPa
2.7.4.	Tensile Strength	20 – 23MPa
2.7.5.	Thermal Expansion	5 x 10^{-5} mm/mm/°C.

3.0 USES

Uses include:

3.1 Assembly and repair of precast concrete units.

3.2 Repair of spalling concrete and protection of steel reinforcement.

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.

Stratmore
Leading solutions for construction.

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EPAR EM

TECHNICAL DATA Continued

4.0 APPLICATION

4.1. SURFACE PREPARATION. Thoroughly clean the jointing surfaces of all extraneous matter, especially oil and grease. Laitance 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.

4.2. MIXING. Accurately proportion required volume of resin and hardener ensuring this amount can be used within its pot life. Mix the two parts THOROUGHLY by machine, spatula or hand until a uniform grey colour is obtained. Avoid skin contact and wear protective gloves at all times during mixing and application. If required, wet gloves then shake off excess water to aid mixing. Avoid mixing large quantities of epoxy as heating may occur [exothermic reaction] which reduces the pot life, especially in hot weather.

4.3. In cold weather, the resin and hardener may be softened by placing the containers in hot water for 15 minutes.

4.4. APPLICATION. EPAR EM should be worked well into the surface to be filled or bonded. Initially a thin smear should be applied to both mating surfaces to ensure the surface is properly 'wet' with epoxy. After applying this initial layer more EPAR EM may be applied to the desired thickness. Both surfaces should be coated with EPAR EM before being joined. If applied under water, mix the EPAR EM above water and when applying, work the epoxy well into the substrate to gain a good bond, then build up layers. Avoid mixing water into the EPAR EM.

4.4.1. Alternatively, surfaces should be primed with EPAR 226 before EPAR EM is applied. Brush EPAR 226 well into the surface and apply EPAR EM while EPAR 226 remains tacky.

4.4.2. A smooth surface can be obtained by wiping with a wet cloth or trowel before initial cure.

4.4.3. Where potable water contact is to occur, the EPAR EM application must be fully cured before contact with water (allow 7 days). Thoroughly wash the entire coated substrate with clean water and discard the water before using for potable water.

4.5. 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 PACKAGING

1-litre pack

2-litre pack

8-litre pack

20-litre pack

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