

# EPOXY MORTAR PUTTY EPAR EX

## TECHNICAL DATA

### 1.0 DESCRIPTION

A two part, non slump epoxy mortar specially formulated to allow hand mixing. Adheres strongly to dry or damp concrete, steel, glass, aluminium, etc. EPAR EX is non shrink and has excellent chemical resistance.

Also available with a cold cure hardener for use from 0°C – 10° C and a 5 minute hardener which has a 5 minute pot life and 10 minute initial set time.

### 2.0 PHYSICAL 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. Std hardener.
2.4	Minimum Application Temp.	10°C. Std hardener.
2.5	Shelf Life	1 year in original unopened containers.
2.6	Cured Properties	(Standard hardener at 20°C)
2.6.1	Colour	Grey.
2.6.2	Specific Gravity	1.8
2.6.3	Compressive Strength	46 MPa 1 day, 71 MPa 7 days.
2.6.4	Compressive Modulus	13 GPa.
2.6.5	Tensile Strength	23 MPa.
2.6.6	Thermal Expansion	5x 10 <sup>-6</sup> 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 reinforcements.
- 3.3 Levelling of concrete floors exposed to heavy load or impact.
- 3.4 Grouting of horizontal or overhead starter bars or bolts.
- 3.5 Fabrication of concrete pipe intersections, etc.

### 4.0 APPLICATION INSTRUCTIONS

- 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.



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# EPAR EX

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## TECHNICAL DATA Continued

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- 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. For prolonged hand mixing, the use of rubber gloves or a barrier cream is recommended. Thoroughly wet hands in water to prevent sticking of EPAR EX. Shake off excess. Avoid mixing water with EPAR EX as this may interfere with the final set. In cold weather the resin and hardener may be softened by placing the containers in hot water.
- 4.3 **APPLICATION.** EPAR EX 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 EX may be applied to the desired thickness. Both surfaces should be coated with EPAR EX before being joined.
- 4.3.1 Alternatively surfaces should be primed with EPAR 122 before EPAR EX is applied. Brush EPAR 122 well into the surface and apply EPAR EX while EPAR 122 remains tacky.
- 4.3.2 A smooth surface may be obtained on EPAR EX by wiping with a wet cloth, trowel or fingers before initial cure.
- 4.4 **CLEAN UP.** Hands and equipment should be washed in soap and water before curing is advanced.

## 5.0 PACKAGING

- 900 gm pack (2 x 450gm) – approx. volume 0.5 litre  
1.8kg pack (2 x 900gm) – approx. volume 1 litre  
3.6kg pack (2 x 1.8kg) – approx. volume 2 litres  
16kg pack (2 x 8kg) – approx. volume 9 litres



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