

# EPOXY MORTAR/PASTE EPAR HPN

## TECHNICAL DATA

### 1.0 DESCRIPTION

A soft two part thixotropic epoxy mortar/paste, gunable and trowellable. EPAR HPN has excellent adhesion to most materials including concrete, metals, bricks, ceramic, glass etc.

EPAR HPN is non shrink and has excellent chemical resistance.

Also available with a cold cure hardener for use from 0°C – 10° C

### 2.0 PHYSICAL PROPERTIES:

2.1	Viscosity	Thixotropic paste. Non Slump up to 10mm on vertical surface.
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. 0°C cold cure 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	1.7
2.6.3	Compressive Strength	33 MPa 1 day, 62 MPa 7 days.
2.6.4	Compressive Modulus	5 GPa.
2.6.5	Tensile Strength	15 MPa.
2.6.6	Thermal Expansion	5x 10 <sup>-5</sup> mm/mm/°C.

### 3.0 USES

The excellent mechanical properties of EPAR HPN make it suitable for many applications including the following:

- 3.1 Bedding and jointing of precast concrete units.
- 3.2 Grouting of horizontal starter bars and bolts.
- 3.3 Repair of spalling concrete and protection of reinforcing.
- 3.4 Levelling and patching of concrete floors under heavy load or impact.
- 3.5 Fabrication of concrete pipe intersections.
- 3.6 Tiling.
- 3.7 Bonding of aggregates to concrete etc., for decorative finishes.
- 3.8 Bedding of machines and backing plates both vertical and horizontal.

### 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.



## 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](http://www.fbsltd.co.nz)

Email: [info@fbsltd.co.nz](mailto:info@fbsltd.co.nz)

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# EPAR HPN

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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 using a spatula or preferably a mixing paddle on a low speed electric drill. Mix until a uniform grey colour is obtained.
- 4.3 **APPLICATION.**
- 4.3.1 For jointing, apply a thin, even layer of EPAR HPN to both surfaces using a spatula or notched trowel.
  - 4.3.2 For patching or levelling, apply with spatula or trowel. To obtain a smooth surface keep the face of the trowel wet when finishing.
  - 4.3.3 When grouting in bolts or starter bars EPAR HPN, once mixed, may be loaded into mastic cartridges and gunned into place.
- 4.4 **CLEAN UP.** Hands and equipment should be washed in soap and water before curing is advanced.

## 5.0 PACKAGING

8lt pack (4 litres resin, 4 litres hardener)



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