

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 10 mm 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	5 x 10 ⁻⁵ 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.

EPAR HPN

TECHNICAL DATA Continued

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.
- 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.
- 4.5 Refer to Product Safety Data Sheet and for additional handling & safety instructions. Refer to product label for additional mixing and application instructions.

5.0 ADDITIONAL INFORMATION

Gloves must be worn when handling epoxy products. Read product labels before use.

Keep out of reach of children. Avoid contact with skin and eyes.

For optimal performance with any epoxy system it is important to:

1. Proportion the hardener and resin accurately.
2. Thoroughly mix together until of an even colour and consistency.
3. Use the correct product for the conditions, especially during cold weather.

If potable water certification is required, then refer to EPAR EM Epoxy Mortar.

6.0 PACKAGING

4, 8, 20 and 40 litre packs



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