

Description:

TechnoFix[®]Epomast PE is a versatile, rapid curing, high strength three-component, polyester resin based mortar suitable for many applications in building and civil engineering such as for the bedding and fixing of manhole frames, airport landing lights, duct frames and precast concrete units. It has been formulated for easy mixing and placement, even at low temperatures and, when cured, provides a durable, chemically resistant bedding and fixing material with good bond strength.

TechnoFix[®]Epomast PE consists of a low viscosity unsaturated polyester resin component and a filler component of graded minerals and catalyst. TechnoFix[®]Epomast PE specifically designed as a non-critical mix ratio which allows the consistency to be varied from pourable to trowellable without adversely affecting curing times and strength.

Application Includes:

- For rapid repairs, bedding, jointing and profiling of concrete, masonry and brickwork.
- Repair of in-situ and pre-cast concrete.
- For bedding, jointing, profiling of concrete, repair of damaged concrete in precast units, jointing between precast units, repair of stair treads, fixing tiles, cladding, repairs to kerbs, man hole covers, door and window frames etc.

Features:

- Durable- Stronger than concrete. Highly chemical and oil resistant. Excellent bond strength.
- Ease of application- Mix resin and hardener in any proportion as required. No primer is required.
- Quick Application- Finish job operation in 2 - 3 hours.
- Versatile- Can be poured, trowelled and filled with coarse aggregates. Fast curing even at low temperatures. High strength development.

Cleaning

Tools and equipments should be cleaned within the pot life of the grout with TechnoPur[®] Eco Cleaner. Cured grout can only be removed mechanically.

Packaging

TechnoFix[®]Epomast PE is supplied in 25 kg composite packs. Packaging size may vary subject to local regulations and requirements.

Directions for use

Surface preparation

Proper surface preparation is the key to any successful repair application using TechnoFix[®] Epomast PE. The surface to be repaired should be free of dust, laitance, oils or other contaminants. Mechanical means like Grit Blasting or grinding should be adapted to remove surface contaminants. The surface should preferably be dry and should not suffer water ingress. Floors with heavy oil contamination, detergent washing with mechanical scrubbing should be followed by thorough water.

Typical Properties at 20°C

Physical State	Part A Base-Liquid	Part B Catalyst- Powder	
Colour of mix	Grey and Green	Pot Life at 25°C	30 Minutes.
Compressive Strengths @20°C	25N/mm2 @ 2 Hours	70N/mm2@ 6 Hours	80N/mm2@ 2 4Hours
Set Times (mins)	20@25°C	40@15°C	80@5°C and 160 @0°C
Flexural Strength	25N/mm2	Tensile Strength	12N/mm2
Density	1900kg/m3	Shrinkage	Less than 1% linear
Youngs Modulus	15kN/mm2	Thermal conductivity	1.0 Watt/m/°C
Maximum thickness	12 mm	Minimum thickness	5 mm
Maximum plan area	0.25 m2	Maximum linear run	1 m

*All technical data stated herein is based on tests carried out under laboratory conditions.

Mixing

TechnoFix[®]Epomast PE comes in pre-weighed proportions of Resin and Catalyst. The required resin component should be poured into the plastic mixing pan and the powder hardener shall be added slowly while continuing to mix until a uniform mix is achieved. Only mix as much quantity that can be used within the pot life.

Mixing should preferably be done mechanically. When a smooth and homogenous consistency is achieved the mix is ready for placement. Placement should be completed within the gel time of the mortar.

Placement

The mix should be troweled firmly to ensure a good bond with the substrate. In case of dense substrates a priming coat of the liquid component alone or Resin- Hardener mix in brushable consistency over the prepared substrate is recommended. A maximum thickness of 12mm can be applied in a single layer application. Over lay should be carried out after an Inter coating interval of 4 hours. For higher volume applications the mortar mix may be extended by addition of Zone II sand or coarse aggregate (6-10mm). In case laying large floor areas heat generation on curing may cause cracking. In such cases the topping should be laid in alternate bays of not more than 0.5M X 0.5M. This area may be raised to 1M X 1M when laying using aggregates.

Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from 0°C to 30°C.

Yield

Yield approx. 12 litres per 25 kg pack.

Health and Safety instructions

Some people are sensitive to resins so gloves and a barrier cream should be used when handling TechnoFix®Epomast PE. If contact with the resin occurs, it must be removed, before it hardens, with a resin removing cream. Follow by washing with soap and water. Do not use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Ensure adequate ventilation in volume and pattern in working area and do not smoke during use. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals.

Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment.

DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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Please note that this datasheet supersedes all previous versions.

Additional information

Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

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