

EPOREP E80

High Strength Epoxy Repair Mortar

Description

EPOREP E80 is a high performance three component solvent free epoxy mortar. It is consisting of epoxy resin with graded hard aggregates and modified hardener to produce high mechanical properties non-shrink mortar.

EPOREP E80 is especially suitable as a repairing mortar for concrete when high strength and resistance to chemical attack is required

Features & Benefits

- High mechanical and adhesion properties
- Solvent free
- High impact resistant
- Impermeable with no shrinkage
- Resistant to chemical attack
- Excellent tensile and compressive strength.

Uses

EPOREP E80 is designed to repair of surfaces subjected to high mechanical and chemical attacks. It can also be used to repair damaged floors and walls in very tough and harsh environments as for industrial and heavy traffic floors.

EPOREP E80 is used to repair concrete up to 60mm thickness in single applications. It can be used also for all structural and general concrete repairs (interior, exterior, above and below grade). It can be used also to repair concrete in load bearing structures, bridges, channels, dams, tunnels and for industrial and heavy traffic floors.

Technical Properties

Appearance	Grey Thixotropic Paste
Density	2,000 Kg/m ³
Pot life	60 minutes @ 25 °C
Adhesion to concrete	>2.5 N/mm ²
Compressive strength	80 N/mm ²
Flexural Strength	26 N/mm ²
Tensile strength	12 N/mm ²

Water absorption	<0.2%
Initial Hardening	24 hrs
Full cure	7 days
Chemical Resistance	Excellent resistance to diluted acids, alkali solutions, oils, detergents and sea water.

All values are subject to 5-10% tolerance

Standards Compliance:

- ASTM D 4541, ASTM C 881
- BS 6319 part 7

Application Procedures

Surface preparation:

The surface must be thoroughly cleaned and prepared. Remove all loose particles, dirt, dust, laitance, and mould release agents, curing compounds, oils, grease, floor hardeners and any waterproofing materials for best results., Remove laitance, dirt and dust by mechanical scarification such as wire brushing, scrapping, scabbling or grit blasting. Clean the dust by pressurized air.

All corroded steel should be completely exposed including the rear of the bar to enable thorough cleaning. It is recommended that grit blasting be used to clean the reinforcing steel and particular attention should be paid to the rear of the bar to ensure all corrosion products have been removed.

Once the reinforcing steel has been cleaned it should be coated immediately with one coat of **EPOPRIME ZINC** protective coating primer.

All concrete surfaces should be primed with TOPSEAL epoxy primer. The primer should be mixed in the proportions supplied, adding the entire contents of the 'hardener' tin to the 'base' tin. The two components should be thoroughly mixed together for 3 minutes. Primer should be applied to the prepared substrate by a stiff brush.

Mixing Instructions:

EPOREP E80 is supplied in a three-component kit consisting of Base component, Hardener and a bag of selected graded aggregate. The product should be mixed in the proportions supplied, adding the entire contents of the 'hardener' tin to the 'base' tin. The two components should be thoroughly mixed together for 3 minutes. Then slowly add entire amount of aggregate to the resins with the mixer running. The mixing of part packs should not be undertaken

Application Instructions:

While the primer is still tacky, Apply the mixed **EPOREP E80** to the prepared substrate by trowel or spatula, pressing firmly into place to ensure positive adhesion and full compaction. Thoroughly compact the mortar around any exposed reinforcement.

EPOREP E60 can be applied in a thickness of up to 60 mm Thicker sections should be built up in layers.

Coverage

1.95 - 2.0 kg of **EPOREP E80** per m² for 1mm thickness depends on surface porosity and roughness

Packaging

EPOREP E80 is available in 8 kg kit

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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