PolyPatch EP

High-Performance Epoxy Repair Mortar

Description

PolyPatch EP is a high-performance, solvent-free epoxy repair mortar comprising a three-component system formulated to provide excellent bonding strength, abrasion resistance, and durability.

The product is specifically designed for concrete repair and patching applications in demanding environments.

Technical Properties

Appearance	Thixotropic Paste
Density	~ 1.90 Kg/l
Compressive Strength	~ 60 N/mm² 7 days
Adhesion to Concrete	~ 2.5 N/mm² 7 days
Flexural Strength	~ 35 N/mm² 7 days
Tensile Strength	~ 16 N/mm²
Water Absorption	0.31%
Full Cure	7 days
Pot Life (25 °C)	~ 50 Min
Consumption	1.9 kg/m²/mm

All values are nominal and subject to a tolerance of ± 5-10%

Key Features

- Excellent adhesion performance
- High resistance to impact
- Impermeable to water
- Superior resistance to chemicals
- Vertically, horizontally applications
- Durable in aggressive environments

Area Of Use

- Structural and non-structural concrete repairs
- Repair of damaged industrial concrete floors
- Concrete patching in industrial and marine environments
- Heavy-duty floor patching in high-traffic areas
- Repair of concrete elements above and below ground level
- Repair of concrete surfaces subjected to abrasion and impact

Packaging

PolyPatch EP is available in:
12 Liters Kit

Storage

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

Standard Compliance

- BS 6319-2
- ASTM C 579
- BS 6319-3
- ASTM C 307
- ASTM C413-01

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Application Procedure

Surface Preparation

All substrates must be clean, sound, and free from dust, laitance, loose particles, curing compounds, oil, grease, paint residues, and any contaminants that may affect adhesion. Mechanical preparation methods such as grit blasting, wire brushing, scabbling, or grinding are recommended to achieve a suitable surface profile.

Corroded reinforcement bars should be fully exposed and thoroughly cleaned by grit blasting. Following cleaning, reinforcing steel should immediately be protected using PolyZin 300 protective primer.

Concrete substrates should be primed using PolyPrime EP epoxy primer prior to application of the repair mortar.

Mixing Procedure

Pour Component B (hardener) into Component A (resin) and mix thoroughly to ensure complete chemical reaction. Use a slow-speed drill fitted with a suitable paddle mixer, operating at 200–300 rpm.
Mix until a uniform consistency is achieved, then gradually add Component C (aggregate) and continue mixing for 2–3 minutes until a homogeneous, uniform-colored grout is obtained.

Application Instruction

Apply PolyPatch EP onto the primed substrate while the primer remains tacky. The mixed mortar should be firmly compacted using a trowel or spatula to ensure complete adhesion and eliminate air voids.

Particular attention should be given around exposed reinforcement bars to ensure proper encapsulation and compaction.

- Maximum application thickness on horizontal surfaces: 50 mm
- Maximum application thickness on vertical surfaces: 12 mm

For thicker applications, the material should be applied in multiple layers.

Quality & Care

All products provided by PolyCrete are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001, ISO 14001 & ISO 45001.

Health & 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 PolyCrete Technical Department.

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