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EPONITE GP

High Strength Epoxy Mortar

DESCRIPTION

EPONITE GP is a three-component high strength epoxy mortar which is designed to be trowel applied to concrete and masonry substrates to produce a highly durable abrasion and chemical resistant repair.

USES

EPONITE GP is used for the repair of concrete and masonry where a repair is required with excellent mechanical properties. Applications include the repair of concrete in highly trafficked areas where impact resistance is required. Is also suitable as a high strength bedding mortar for pavers and street iron work.

ADVANTAGES

- Excellent impact and abrasion resistance.
- Excellent compressive strength.
- Chemical resistant.
- Excellent workability.
- Frost resistant and impervious to water

Property	Value
Colour	Concrete grey
Pot life @ 20°C	1 Hour
Hard Dry Time	18 hrs @ 20°C
Density	2015kg/ M^3
Compressive Strength	70 MPa @ 28 Days
Tensile Strength	12 MPa
Taber Abrasion Resistance	40 mg weight loss (CS 17 wheels: 1kg load, 1000 cycles)
Adhesive Bond to Concrete	>3.8 MPa (Concrete Failure)
Thermal Coefficient of Linear Expansion	3 x 9-5 cm/cm/°C
Maximum Service Temperature	65°C Continuous

PROCEDURE

Surface Preparation: Remove all laitance, spalled concrete, grease, oil, dust, and other contaminants by mechanical means such as scabbling or bush hammering to provide a sound and clean substrate. All exposed rebar should be fully exposed by cutting out around the full circumference and all scale and rust removed by wire brush or grit-blasting. Metal substrates should be degreased, and grit blasted to Sa 2.5 Swedish Standard.

Priming: The prepared substrates should be primed using EPONITE TACKPRIMER in accordance with the appropriate technical datasheet. It should be allowed to tackify but not completely harden before applying the mortar. A coat should also be applied to any exposed rebar.

www.premcrete.com | 02380 276166 | sales@premcrete.com
44 Macadam Way, West Portway, Andover, Hampshire, SP10 3XW

Mixing: The base component and curing agent should be mixed thoroughly, using a slow speed drill and mixing paddle. Slowly add the aggregate component and mix for 2-3 minutes until a homogeneous mortar is achieved which has uniform consistency and colour. Once mixed the mortar should be placed immediately as it has a short pot life.

Application: EPONITE GP should be applied to the substrate using a suitable trowel whilst the EPONITE TACKPRIMER is still tacky. This is usually between 10 and 90 minutes. Compact well to ensure the optimum adhesion between mortar and primer is achieved. The mortar can be applied at thicknesses between 5mm and 50mm, taking good care to ensure there is no feather edging. The trowel should be kept clean, using PREMCRETE CLEANING SOLVENT to prevent the mortar sticking to the trowel. This will ensure that a clean sharp finish is achieved.

Curing: EPONITE GP will have hardened sufficiently after 24hrs at 20°C to be fully trafficked. Longer periods of cure will be necessary at lower temperatures. Full mechanical and chemical properties will be achieved following 7 days cure @ 20°C.

Equipment Cleaning: Tools and equipment should be cleaned immediately using PREMCRETE CLEANING SOLVENT.

PACKAGING & COVERAGE

Pack Size: EPONITE GP is supplied in a 7.5kg and 25kg packs.

Yield: 1 x 7.5Kg pack will yield approximately 3.4ltrs of epoxy mortar.

Coverage: A 7.5Kg pack will cover approximately 0.68m² at 5mm thickness.

STORAGE & SHELF LIFE

EPONITE GP should be stored in clean dry conditions at temperatures between 10°C and 25°C. When stored in unopened containers the product will have a shelf life of 12 months. Do not expose to freezing conditions.

HEALTH & SAFETY

See separate material safety datasheet.