

EAMIGROUT EPHM

Solvent –Free , High Performance ,High Strength Flowable New Resin Technology Grout

Product Description

EAMIGROUT EPHM is a three components ,solvent free (100 % solids) which is based on a combination of a new high strength hybrid epoxy resin technology as well as a selected new DL technology . EAMIGROUT EPHM is supplied as per-weighted three component pack, which after mixing will produce a high flow, non-shrink, excellent adhesion , chemical resistant & masonry epoxy grout for concrete.

Typical Applications

EAMIGROUT EPHM is formulated for successful application in tough situation requiring high flow. These applications includes :

- High dynamic load under machinery plates grouting.
- Special types of anchors fixing bolts requiring higher strength.
- High load marine crane rail grouting.
- Repair of damaged concrete in area subject to chemical attack & dynamic loading.
- Bedding for industrial equipment subject to mobile and dynamic forces.
- Grouting under chemical processing equipment.
- Grouting beneath new and old machinery plates.

Product Features

- Easy to mix & to apply.
- Solvent-free, 100% solid content.
- Dynamic load resistance.
- Water proofing layer for pile cap.
- Ensures proper transmission of static & dynamic loads to the foundations.
- Rapid strength gain.
- Excellent performance & durability.
- Non-shrink curing moisture tolerant .
- Chemical resistant .
- Versatile application thickness.
- Excellent adhesion to most substrates.
- Excellent fatigue resistance.
- Excellent resistance to water & water soluble salts in marine environment .
- Low creep.
- High bearing surface.

Standards

EAMIGROUT EPHM is formulated to comply with all requirements of ASTM C-881 "Epoxy resin-based Bonding Systems for concrete.

Guide for Applications Surface Preparation

All surfaces must be sound, clean, free from water, oil, grease & other contaminants that may affect the bond between the product & the substrate. Metal surfaces shall be free from rust & scale.

Technical Properties

| | |
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| Appearance | Free-flowing mortar (mixed materials) |
| Mixed Density | 2.10 ± 0.10 kg/liter |
| Pot life | 75± 15 minutes at 25°C/ 60 ± 15minutes @ 35°C |
| Chemical Resistant | EAMIGROUT EPHM is resistive to most of the common chemical reagents including water, sea water, chlorides & sulphate & other corrosive salts, inorganic acids, alkalis, petrol, oil, kerosene , etc. For further information concerning resistance to specific chemicals reagents, consult EAMIC technical support. |
| Flash Point | >100°C |
| Mechanical Properties | Typical results for samples cured for 7 days AT 25°C, carried out under controlled laboratory conditions. |
| Compressive Strength | 95±5 N/mm ² (ASTM C 579) |
| Tensile Strength | 14 N/mm ² (ASTM D 638) |
| Flexural Strength | 25 N/mm ² (ASTM D 790) |
| Bond Strength (14days cure) | To concrete 4 N/mm ² (ASTM C 882) (concrete failure) |
| Water Absorption | (4 days curing then 24 hours immersion in water) |
| Heat Deflection Temperature | 49°C |
| Coefficient of Thermal Expansion | 43× 10 ⁻⁶ / °C |

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Form Work Preparation

EAMIGROUT EPHM requires form work to perform the optimum performance. Form work usually are wood , same used is concreting. Form work should be of proper strength & tight preventing any leakage.

Mixing

Pour Component A into the mixing vessel and pour also Component B into the same vessel and mix well till homogenous clear colour is achieved. Gradually add Component C (Filler) while mixing, continue mixing till homogenous yellowish colour and consistency is achieved. The mixed materials shall be used immediately after mixing within the open time: 60 minutes @ 20 °C

Placement

EAMIGROUT EPHM Place immediately after mixing, into the prepared area and use a steel trowel to level

Warranty

We warrant our products to be of good quality & manufactured to rigid standards. This Warranty is in lieu of any & all other warranties expressed or implied. This data sheet is published for information only. It is believed to be correct but no liability is accepted for it or the suitability of the product for any particular purpose. EAMIC TRETOL services are free & the company does not accept liability for any loss arising from it. Max liability is limited to substituting the same quality of material .

Cleaning

Clean all the tools & equipment after finishing the work immediately with EAMIC SOLVENT EP20.

Packaging

EAMIGROUT EPHM is supplied as 3 component :26 kg kit , which yields average of 12.38 liters.

Storage

EAMIGROUT EPHM should be stored in normal conditions away from any extreme temperatures.

Shelf life

One year if stored properly in its original well closed container.

Health & Safety

- EAMIGROUT EPHM is non-toxic, nonhazardous during handling, storage and use. In spite of this, safety cloth, goggles, gloves and mask shall be used during handling.
- For Ecology: Do not dispose directly to water or soil, re-use it if possible or mix each component (A and B) and after hardening burry it in landfill.
- Splashes on skin will be washed with water and soap.
- For more details, refer to Product's MSDS.

EAMIC TRETOL

Leaders in Construction Chemical Technology

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Cairo : 2Hadaek El Obour, Salah Salem St. Nasr City – Cairo Egypt Tel: (202) 22636220/24011024/22619414 Fax: (202) 22639002
Alex : 37 Ismail Serri Street Smouha- Alexandria Tel: (203) 4255066 Fax: (203) 4255066

www.eamic.co