

## EAMIGROUT EPL

### Solvent-free, High Performance, Flowing Epoxy Resin Grout

#### Product Description

EAMIGROUT EPL is a three components, solvent free (100 % solids). Based on a combination of special selected high strength epoxy resin & well selected graded aggregate. It supplied as per-weighted three component pack, which after mixing will produce flowing, non-shrink, excellent adhesion to concrete & masonry surfaces, chemical resistant & high mechanical & physical epoxy grout properties.

#### Typical Applications

EAMIGROUT EPL is formulated for successful application of:

- Pile head treatment.
- Seating machinery subject to bearing load.
- Grouting under chemical manufacturing equipment.
- Bridge bearing plates.
- Setting anchor bolts dowels & rebar.
- To fill cavities in concrete.
- In repair of damaged concrete in areas subject to chemical attack.
- High load crane rail grouting

#### Product Features

- Solvent - free.
- Dynamic load resistant.
- Non -shrink & minimum creep.
- Chemical resistant.
- High strength & superior mechanical properties.
- Excellent bonding.
- Low exothermic cure, which allows placement up to 75mm thickness in a single pour.
- Formulated to be suitable for the Middle East climates.

#### Guide for Application

##### Surface Preparation

All surfaces must be sound, clean, free from water, oil & grease & other contaminants, which may affect the bond between the grout & the substrate.

Primer is not required.

##### Form Work Preparation

Form work must be well tight to prevent any possible leakage.

## Technical Properties

<b>Appearance</b>	Grey free-flowing( mixed materials )
<b>Mixed Density</b>	2.1 ± 0.1 kg/liter
<b>Pot life @ 30°C</b>	30-40 minutes
<b>Chemical Resistant</b>	EAMIGROUT EPL is resistant to most of the common chemical reagents including water, sea water, chlorides & sulphate & other corrosive salts. Inorganic & organic acids alkalis, petrol ,oil, kerosene, etc. For further information concerning resistance to specific chemicals reagents, consult EAMIC Technical Support.
<b>Flash Point</b>	>100 °C .
<b>Mechanical Properties</b>	Typical results for samples cured for 7 days @ 25°C , carried out under controlled laboratory conditions.
<b>Compressive strength</b>	Tested in accordance with ASTM D- 695 60 N/mm <sup>2</sup>
<b>Flexural Strength</b>	Tested in accordance with ASTM D- 580 15 N/mm <sup>2</sup>
<b>Bond Strength (14-days cure)</b>	Tested in accordance with ASTM C- 882
<b>To Concrete 3 N/mm<sup>2</sup></b>	
<b>To Steel 1.5 N/mm<sup>2</sup></b>	
<b>Water absorption</b>	0.1 %, ASTM D- 570, (14 days curing then 24 hours immersion in water )
<b>Elongation at break</b>	Tested in accordance with ASTM D-638 1%
<b>Linear Coefficient of Shrinkage on Curing</b>	Tested in accordance with ASTM C-844 0.005 cm/cm
<b>Heat Deflection Temperature</b>	Tested in accordance with ASTM D-648 49°C
<b>Coefficient of Thermal Expansion</b>	Tested in accordance with ASTM C-580 43 × 10 <sup>-6</sup> / ° C
<b>Temperature Range</b>	(- 20°C to + 60 ° C)

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## Mixing

Mix component A & B together until homogeneity, then add the component C (aggregate) & continue mixing using a slow speed electric drill (about 250 r.p.m) until a homogenous, flowing mix is achieved. Add component C (aggregate) to the mixed epoxy-binder gradually while mixing.

## Application

EAMIGROUT EPL is a flowing grout . Roding or vibrating is normally required. When applying the grout under base plates, pour grout into form while maintaining liquid head until grout rises slightly above & around base plates. This assures proper contact & bonding of the base-plates with EAMIGROUT EPL. Pour in single application with a maximum depth of 75 mm. For application deeper than 75-mm, pour in lifts of maximum depth 75 mm. Do not feather edges. A grout box will facilitate the application.

## Cleaning

Clean all the tools & equipment with EAMIC SOLVENT immediately after use.

## 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 .

## Packaging

EAMIGROUT EPL is supplied in 27 kg, which yields 13.5 liters or 20 kg, which yields 10 liters.

## Storage

EAMIGROUT EPL should be kept in dry warehouse away from any extreme temperatures.

## Shelf Life

One year when stored in its original unopened package.

## Health and Safety

- Epoxy resins contain irritants, especially to the skin, eyes.
- Use appropriate protective clothing. If an epoxy resin should contact the skin, it should be removed immediately with dry cloth or paper towel, & the area of contact washed thoroughly with soap water.

# **EAMIC TRETOL**

**Leaders in Construction Chemical Technology**

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