

# POLYGROUT EP

## High Strength, Flow able, Epoxy Grout

### Product Description

**POLYGROUT EP** is a three component epoxy base product, formulated from exceptionally high tensile and compressive strength epoxy resins, selected aggregates and other special components. This product is a 100% Solids System, which is characterized by zero shrinkage and excellent adhesion to different substrates. It has been formulated with precise setting times and curing rates in order to minimize down time of grouting equipments. It is resilience enables **POLYGROUT EP** to with stand impact and vibration under all types of heavy-duty machinery while being chemically resistant to aggressive liquids.

### Typical Application

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

### Product Features

- Excellent bond to concrete and steel.
- High early strength for minima shutdown time.
- High chemical resistant.
- High compressive, tensile and flexural strength.
- Resistant to demonic loads.
- Flow able consistency for easy placement.

### Packaging

(Comp. (A) + Comp. (B) + Comp. (C) = 18 Kg.

### Properties

#### **Compressive strength:**

Tested in accordance with ASTM C 109 at 30<sup>0</sup> C

1 day 25 N/mm<sup>2</sup>

3 days 66 N/mm<sup>2</sup>

7 days 82 N/mm<sup>2</sup>

#### **Tensile Strength**

Tested in accordance with

ASTM C 307

7 days 18 N/mm<sup>2</sup>

#### **Flexural Strength**

Tested in accordance with ASTM C 348

7 days 34 N/mm<sup>2</sup>

#### **Linear shrinking**

Less than 0.1 %

#### **Coefficient of linear expansion**

Less than  $40 \times 10^{-6} / c^0$ .

#### **Pot Life**

40 minutes at 20<sup>0</sup> C

#### **Density**

Approximately 2000 kg/ m<sup>3</sup>

#### **Chemical Resistance**

**POLYGROUT EP** is resistant to mild acids and alkalis, grease, oil, fats, and salt water. Please consult **POLYCOO** technical department where contact with specific chemicals is anticipated

#### **Limitations**

Application temperature should be between 5<sup>0</sup>C. - 45<sup>0</sup>C.

Store grout at room temperature 24 hours before use.

#### **Guide for Application**

##### Preparation

All surfaces must be structurally sound in order we obtain a good bond .Any unsound material must be removed by chip or scarifying. Contaminated surface that may interfere with bond should be removed by appropriate means, which may include sand blasting & acid etching. After acid etching thoroughly wash with water and remove any dust and loose particles. Surface should be allowed to dry before grouting.

##### Form Work Prep Aeration

Form work must be liquid tight to prevent leakage and strongly braced. To facilitate stripping, the forms should be coated or wrapped with polyethylene sheets.

##### Anchor Bolt Holes

Holes should be cleaned of all dust, dirt, debris and allowed to dry.

If the sides are smooth, roughing the hole with a stiff wire brush or with a rotary brush hammer if space permits is recommended.

### **Mixing**

Mix **POLYGROUT EP** hardener with base till reaching a homogenous consistency and then add the **POLYGROUT EP** filler. Mix for 2 to 3 minutes until the filler aggregate is wetted out. Make sure that all base & hardener are used. It is recommended to use a slow speed paddle mixing drill.

### **Placing**

Pour mix into anchor hole or form work through a funnel or directly, if space permits. When grouting plates, pour grout into the head box and allow to flow under the plate from one side only to assure complete filling of space. A rod or chain may be used if necessary, to assist in vibrating, always keep the head box filled to provide a constant head of grout and to assure a continuous flow.

### **Curing**

**POLYGROUT EP** requires no special curing procedures.

### **Finishing**

If a smooth finish is desired the surface of the grout may be troweled, with a light application of solvent on the trowel.

### **Storage**

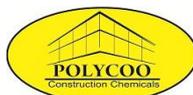
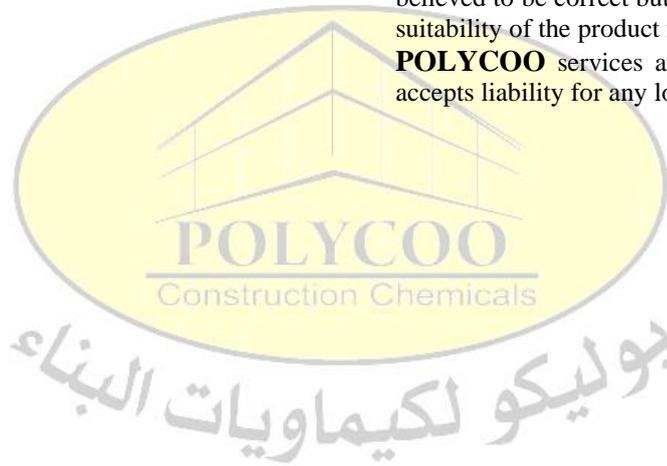
**POLYGROUT EP** should be stored in cool dry shaded areas.

### **Shelf Life**

One year when stored as recommended.  
Case of contact with eyes after washing with running water.

### **Guarantee / Warranty**

We warrant our products to be of good quality and manufactured to rigid standards. This warranty is in lieu of any and 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. **POLYCOO** services are free and the company does not accept liability for any loss arising from it.



Under technical collaboration with

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