

# POLY TILE EP

## Epoxy Mortar Tile Adhesive & Grout

### PRODUCT DESCRIPTION

**High performance epoxy tile bedding and grouting material, solvent-free**

**POLY TILE EP** is particularly suitable for joints of up to 30 mm wide.

**POLY TILE EP** Used for interior and exterior applications; in vertical and horizontal situation for bedding and grouting of tile wherever high chemical resistance to acid, alkalis and excellent mechanical properties are required.

Grouting of tile joints up to 30 mm wide in both floor and wall tiles.

### TYPICAL APPLICATIONS

Grouting of tile joints up to 30 mm wide in the following locations:

- Housing.
- Power stations.
- Swimming pools.
- Warehouses.
- Hospitals.
- Garages and all external tiling.
- Factories.

### PRODUCT FEATURES

- Solvent-free, odorless
- Non-shrink Ceramics.
- High permanent bond strength.
- Formulated to be suitable with the Middle East conditions
- Excellent adhesion to concrete and
- Chemical resistant & waterproof.
- Non-sag
- High tensile strength.
- Used in both horizontal and vertical surfaces.
- Easy to use and apply.

### STANDARDS

**POLY TILE EP** complies with the Requirements of the following standards:  
Adhesive for use with ceramic  
BS 5980 Type I Class AA.

BS 5385 Part I

ANSI A.108.1

ASTM C-881 Type I, Grade 3 Class B & C.

### CHEMICAL RESISTANT

**POLY TILE EP** is resistant to most of the common chemical reagents including water, sea water, chlorides & sulphate and other corrosive salts, inorganic & organic acids, alkalis, petrol, oil, kerosene, etc. For more details about specific chemical reagent, ask for Technical Support.

### PROPERTIES

#### **Open time**

2.30 hours @ 200C.

#### **Minimum working temperature**

+ 50C

#### **Pot life**

2 hours @ 250C

#### **Specific Gravity**

2.20 @ 250C.

#### **Initial Cure**

24 hours @ 25

#### **Linear Coefficient of Shrinkage**

0.005 cm/cm (ASTM C-844)

Shear Strength

5 N/mm<sup>2</sup> (ASTM D-732)

#### **Physical Properties**

Typical results are shown in the Following:

#### **Compressive Strength**

87.5

N/mm<sup>2</sup> (ASTM C-

579)

#### **Bond Strength** (mean shear slant)

Cured 14 days (ASTM C- 882)

40 N/mm<sup>2</sup>

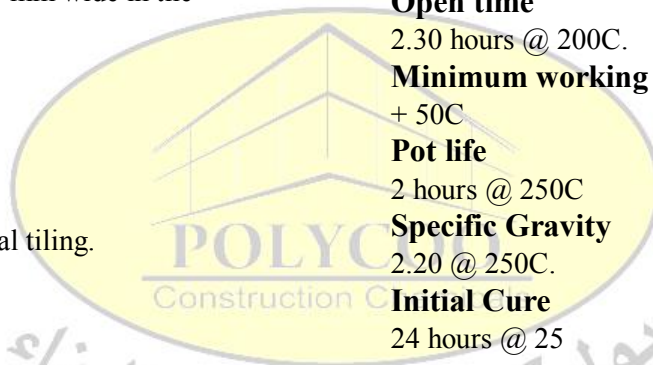
on dry concrete

26 N/mm<sup>2</sup>

on wet concrete

#### **Elongation at break**

2 % (ASTM D- 638)



### **Tensile Strength**

24 N/mm<sup>2</sup>

### **Water Absorption**

0.3% after 1 day (ASTM D-570)

### **Flexural Strength**

35.5N/mm<sup>2</sup> (ASTM D-790)

### **Hardness, Shore**

8 (ASTM D-2240)

## **GUIDE FOR APPLICATION**

### **Surface Preparation**

Prepare a good clean structural surface for bonding by removing all loose materials or disintegrated concrete, traces of oil greases, curing compounds, etc. should be removed by chipping out the affect (areas of concrete and finally sweep or blow off the surface so as to remove dust which will prohibit proper bonding.

Steel surfaces should be cleaned and free from any rust.

### **Mixing**

The components of base and hardener shall be mixed until a uniform consistency is achieved; the filler is added gradually while mixing using a slow speed drill fitted with a mixing paddle until a uniform consistency is achieved.

### **APPLICATIONS**

The mixed adhesive paste should be spread over the surface using a serrated trowel. The tile shall be fixed during the open time.

### **PACKAGING**

**POLY TILE EP** is supplied in 10 kg pack consisting of the three components: Component A (Resin), Component B (curing agents), and Component C (filler).

### **STORAGE**

**POLY TILE EP** should be stored in dry warehouse away from any extreme temperatures.

### **SHELF LIFE**

One year in unopened containers.

### **Equipment care**

- Excellent durability
- Can be used for both bedding and grouting of tiles
- Specially designed for wide joints up to 20 mm wide.
- Good adhesion to dry tiles.
- Easy to use, as with all chemical products, care should be easily finished.
- Water resistant.

### **HEALTH AND SAFETY**

Taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Teat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well-ventilated areas and avoid inhalation.

Field service, where provided, does not constitute supervisory responsibility.

### **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 is free and the company dose not accept liability for any loss arising from it.

### **TECHNICAL SERVICES**

For any further technical advice and recommendation for the use of all **POLYCOO** products, please consult the nearest **POLYCOO** technical office.



Under technical collaboration with

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