

# HIGH BUILD EPOXY E16

## Product Code

TP06, TP30 Packaging listed overleaf

## Description

High Build Epoxy E16 is an epoxy resin based compound suitable for placing using hand tools. The three pack product consists of a resin base which is packed in a polypail, a bottle of hardener and a bag of specially graded fillers. The mixed mortar is high build and non slump will stay in position without the use of support formwork when placed in thicknesses of 5mm to 50mm. The mortar, placed using hand tools, gains strength rapidly reaching 80N/mm<sup>2</sup> at one day. High Build Epoxy E16 may be used in conjunction with Bondcoat UF priming system giving excellent adhesion when applied to most construction materials. The placed mortar is stable to freezing and thawing and is resistant to most chemicals including acids, alkalis, petroleum products and sea water.

## Uses include:

- Rail tracks
- Machinery base plates
- Steel and concrete beams
- Precast concrete units
- Steel stanchions
- Elastomeric and steel bridge bearings.

## Compressive Strength

| 1 Day               | 3 Days              | 7 Days               |
|---------------------|---------------------|----------------------|
| 80N/mm <sup>2</sup> | 89N/mm <sup>2</sup> | 100N/mm <sup>2</sup> |

## Typical Mortar Properties @ 20°C

|                          |                              |
|--------------------------|------------------------------|
| <b>Tensile Strength</b>  | 14N/mm <sup>2</sup> @ 7 Days |
| <b>Flexural Strength</b> | 37N/mm <sup>2</sup> @ 7 Days |
| <b>Density</b>           | 1950kg/m <sup>3</sup>        |
| <b>Usable Life</b>       | 45 minutes                   |

## Specification Outline

Under-rail packing, base plate and bridge bearing support shall be carried out using High Build Epoxy E16 as manufactured by Tecroc Products Ltd. The product must be stored, handled and placed strictly in accordance with the manufacturer's instructions.

## Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN ISO 9002:1994 and is assessed by SGS Yarsley International Certification Services Ltd.

## Standards

High Build Epoxy E16 has been tested in accordance with the relevant parts of the following standard:  
B.S. 6319

## Instructions For Use

### Preparation

Remove laitance and all loose material including dust, oil and grease to achieve a sound substrate. Concrete surfaces should be roughened to produce a mechanical key. Steel surfaces should be free of mill scale and rust.

### Priming

For the majority of works carried out using High Build Epoxy E16 no priming is necessary. For particular projects where additional bonding is required priming with Bondcoat UF may be used. Using Bondcoat UF, pour all of the contents of the hardener bottle into the resin tub and mix thoroughly until homogeneous. Apply a thin continuous coat of mixed primer to the work area using a stiff bristle bush. If primer is absorbed by a porous substrate, re-prime before applying mortar.

### Mixing

The mixing of High Build Epoxy E16 should be carried out with **full packs only**. Pour all of the resin into the plastic tub as supplied. Add the hardener to any residual resin then drain into the mixing tub. Mix with a slow speed high torque drill and Mortar Stirrer until homogeneous. Add the filler slowly whilst continuously mixing. After all filler has been added mix for a further two minutes. For larger quantities place the mixed resin system into a suitable mixer such as the or Cretangle. Start to mix and slowly add the filler. When all the filler has been added, mix for a further two minutes until an even colour is achieved.

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PRODUCTS

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### Instructions For Use

#### Placing

Place the mixed High Build Epoxy E16 into the prepared area within 30 minutes from start of mixing. Use a clean trowel or other suitable hand tool. Ensure that the applied mortar is worked well under the plate or rail and is fully compacted. A smooth edge surface finish may be achieved using a steel trowel moistened with Solvent.

High Build Epoxy E16 may be placed at temperatures between 5°C and 35°C. For placing at temperatures outside this range contact the Technical Service Department.

Solvent should be used to clean tools and mixing equipment before setting of the High Build Epoxy E16.

#### Curing

No special curing practice is required.

### Precautions

#### Health and Safety

High Build Epoxy E16 is a resin based product. Resins and solvents may cause allergic reactions in some people. Wear gloves, use barrier cream on unprotected skin areas and wear eye protection when mixing, using and cleaning. Ensure adequate ventilation to prevent inhalation of vapours. If skin contact occurs remove resin immediately with cleansing cream and wash with soap and water. Do not use Solvent. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. If swallowed do not induce vomiting. Seek medical advice immediately.

Full health and safety data are given in Product Safety Data Sheet.

#### Fire

High Build Epoxy E16 is classified as non-flammable.

Solvent is flammable.

Should fire occur extinguish with CO<sub>2</sub> or foam.

#### Yield

High Build Epoxy Mortar is supplied in:

5kg packs: 2.5 litres of mixed mortar.  
11kg packs: 5.5 litres of mixed mortar.

#### Storage And Shelf Life

High Build Epoxy E16 will have a storage life of 12 months in unopened containers when kept in dry conditions at a temperature between 5°C and 45°C. Storage at higher temperatures and high humidity may reduce shelf life.

#### Packaging And Ordering

High Build Epoxy E16 is supplied in:

5kg packs Product Code TP6  
11kg packs Product Code TP30

Bondcoat UF is supplied in:

4kg packs Product Code TM12  
0.8kg packs Product Code TM11

Solvent is supplied in:

1.0 litre cans Product Code TM08  
5.0 litre cans Product Code TM02

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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