

# TECHNICAL DATA 2.3.1 / 3.4.1

## EPOXY MORTAR E

Revision Date 01/2005

### Description

Epoxy Mortar E is an epoxy resin based mortar suitable for placing using hand tools. The three pack product consists of a resin base, a bottle of hardener and a bag of specially graded fillers. The working surface requires to be primed using Bondcoat UF.

Epoxy Mortar E is easy to place using hand tools giving concrete repairs of the highest mechanical properties. The mortar can be used to give support to concrete arises and will act as a high strength support under steel units.

Epoxy Mortar E is resistant to a wide range of chemicals including petroleum products. The mortar is stable to freezing and thawing

- Uses Include:**
- Repairs to concrete beams, columns, floors and walls
  - Support of precast concrete and steel units
  - Placed support for stanchion bases
  - Placed support for bridge bearings

### Typical Mortar Properties @ 20°C

#### Compressive Strength

1 Day	3 Day	7 Day
95N/mm <sub>2</sub>	100N/mm <sub>2</sub>	105N/mm <sub>2</sub>

Tensile Strength 17.3N/mm<sub>2</sub> @ 7 Days  
 Flexural Strength 35.2N/mm<sub>2</sub> @ 7 Days  
 Density 2000 kg/m<sup>3</sup>  
 Useable Life 40 minutes

#### Standards

Epoxy Mortar E has been tested in accordance with the appropriate parts of B.S. 6319

### Specification Outline

Patching, repairs and support shall be carried out using Epoxy Mortar E as manufactured by Tecroc Products Ltd. The product must be stored, handled and used 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 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

### Instructions For Use

#### Preparation

Remove all loose material, plaster, paint and oily deposits to produce a sound clean surface. Roughen smooth concrete to give a good mechanical key.

Cut back repair edges to avoid feather edging. Expose reinforcing steel two thirds of its circumference in a sound concrete background. Totally expose steel in areas where concrete repairs are deeper than the steel embedment depth. Clean back corroded reinforcing steel to bright metal. Protect cleaned steel with Steel Primer.

#### Priming

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 brush.

Place the mixed Epoxy Mortar E, see section below, within 30 minutes of priming. If primer is absorbed by a porous substrate, re-prime before applying mortar.

#### Mixing

The mixing of Epoxy Mortar E should be carried out with full packs only. Pour all of the resin and hardener into a clean vessel. 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 one minute.

For larger quantities place the mixed resin system into a suitable mixer such as the Mixal or Creteangle. Start to mix and slowly add the filler.

When all the filler has been added, mix for a further one minute

#### Placing

Place the mixed material onto the primed surface using a clean trowel or other suitable hand tool. Ensure that the applied mortar is worked well into repair edges and any irregularities. A smooth surface finish may be achieved using a steel float moistened with Solvent.

Place in layers of approximately 10mm to 50mm. Where thicker layers are required to be built up, the surface of the under layer should be left with a wood float finish and should be scored. Subsequent primer and mortar layers may be applied as soon as the initial layer is firm enough not to distort under the new work



Grouts



Structural Support Mortars



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## EPOXY MORTAR E

## Instructions For Use

## Placing

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

Tools and mixing equipment should be cleaned with Solvent before the Epoxy Mortar E has started to harden.

## Curing

No special curing practice is required.

## Precautions

## Health and Safety

Epoxy Mortar E 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

Epoxy Mortar E is classified as non-flammable. Solvent is flammable. Should fire occur extinguish with CO<sub>2</sub> or foam.

## Storage And Shelf Life

Epoxy Mortar E 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 or high humidity may reduce shelf life.

## Yield

Each 5kg pack will yield approximately 2.5 litres of mixed material.

Each 16kg pack will yield approximately 8 litres of mixed material.

Each 28.5kg pack will yield approximately 14.25 litres of mixed material

## Packaging And Ordering

Epoxy Mortar E is supplied in 5kg, 16kg and 28.5kg packs.

5kg pack	Product Code: TP 19
16kg pack	Product Code: TP 04
28.5kg pack	Product Code: TP 108

Bondcoat UF is supplied in 4kg and 0.8 kg packs.

4kg pack	Product Code: TM12
0.8kg pack	Product Code: TM11

Solvent is supplied in 5 litre and 1litre tins.

5 litre tins	Product Code: TM02
1 litre tins	Product Code: TM08

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 our 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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