

TECHNICAL DATA

Revision Date 07/2006

EPOXY MORTAR ET

Product Codes

TP05, TP114, Packaging listed overleaf

Description

Epoxy Mortar ET is a lightweight epoxy resin based concrete repair compound suitable for placing using hand tools. The three pack product consists of solvent free epoxy resin in a tub, a polybottle containing the hardener and a bag of specially graded lightweight filler. The repair working surface requires to be primed using Bondcoat UF giving excellent adhesion when applied to most construction materials.

Epoxy Mortar ET is pre-packaged ready for on site mixing. When mixed, Epoxy Mortar ET produces a high build patching and repair compound which is easy to place onto the horizontal, vertical and overhead surfaces. The product mix design contains a lightweight aggregate which produces a mortar with a low density. The low density of the mortar enables thick section "single pass" applications to be made. The overall mix design enables fair faced finishes to be achieved.

Epoxy Mortar ET is resistant to a wide range of chemicals including mild acids and alkalis, petroleum products and seawater. The mortar is stable to freezing and thawing.

Uses include: Repair of spalled concrete beams, columns and other concrete structures.

High build applications in the vertical or overhead positions.

Specification Outline

Concrete patching and repairs shall be carried out using Epoxy Mortar ET 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 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

Typical Mortar Properties @ 20°C

Compressive strength	40N/mm ₂ @ 7 Days
Tensile strength	6.2N/mm ₂ @ 7 Days
Flexural strength	10.7N/mm ₂ @ 7 Days
Density	1000 kg/m ³
Usable life	40 minutes

Standards

Epoxy Mortar ET 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. Steel surfaces should be free of mill scale and rust. Reinforcing steel should be exposed to at least two thirds of its circumference in a sound concrete background. The steel should be totally exposed in areas where concrete repairs are deeper than the steel embedment depth. Corroded reinforcing steel should be cleaned back to bright metal. Cleaned steel should be protected by Zinc Rich primer.

Priming

Using Bondcoat UF, pour all of the contents of the hardener bottle into the base mixing tub which contains the resin 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 ET within 30 minutes of priming. If the primer has been absorbed by a porous substrate, re-prime before applying mortar.

Mixing

The mixing of Epoxy Mortar ET should be carried out with full packs only. Pour all of the resin and hardener into a clean mixing 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 minute. For larger quantities place the mixed resin system into a suitable mixer such as the Creteangle. Start to mix and slowly add the filler. When all the filler has been added mix for a further minute.



Grouts

Structural Support
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Cementitious
AnchorsHighway
Products

Coatings



Waterproofing

Ground
Engineering

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Placing

Place the mixed material onto the primed surface using a clean trowel or other suitable hand tool. In some instances it may be necessary to apply the mortar using a gloved hand in order to compact the material behind reinforcing steel and into narrow corners and edges. A smooth surface finish may be achieved using a steel float moistened with Solvent.

Place in layers of up to 50mm. In situations where thicker layers are required to be built up, the surface of the under layer should be left with a wooden float finish and be scored. Subsequent primer and mortar layers may be applied after 8 to 24 hours.

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

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

Curing

No special curing practice is required.

Precautions

Health and Safety

Epoxy Mortar ET 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 ET is classified as non-flammable. Solvent is flammable.

Should fire occur extinguish with CO₂ or foam.

Yield

Epoxy Mortar ET is packed in an 11.5kg unit. The yield of the pack is approximately 11.00 litres.

Storage And Shelf Life

Epoxy Mortar ET 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.

Packaging And Ordering

Epoxy Mortar ET is supplied in:

11.5kg packs	Product Code TP05
3.0kg packs	Product Code TP114

Bondcoat UF is supplied in:

4.00kg (large) packs	Product Code TM12
0.80kg (small) packs	Product Code TM11

Solvent is supplied in:

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 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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