

EPOXY MORTAR E FINE GRADE

TECHNICAL DATA

PAREX
A SIKA COMPANY

Product Code

TP29, TP31, TP44 Packaging listed overleaf.

Description

Epoxy Mortar E Fine Grade is an epoxy resin based mortar suitable for placing using hand tools. The product consists of a resin base, a hardener and a bag of specially graded fillers. The grading of the filling system enables application thicknesses of 20mm down to a featheredge.

The working surface requires to be primed using Bondcoat UF giving excellent adhesion to most construction materials. Epoxy Mortar E Fine Grade 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 Fine Grade 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 Strengths

1 Day	3 Days	7 Days
75N/mm ²	84N/mm ²	90N/mm ²

Tensile Strength:	16N/mm ² @ 7 days
Flexural Strength:	27N/mm ² @ 7 days
Density:	1950kg/m ³
Usable Life:	45 minutes
Direct Shear Strength	10N/mm ² (placed on concrete)
Direct Tensile Strength	4.7 N/mm ² (placed on concrete)

Standards

Epoxy Mortar E Fine Grade has been tested in accordance with the appropriate parts of BS 6319.

Specification Outline

Patching, repairs and support shall be carried out using Epoxy Mortar E Fine Grade as manufactured by Parex Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Parex Limited has an integrated business management system. This is externally accredited by UK CARES to BS EN ISO 9001:2015, BS EN ISO 14001:2015, BS ISO 45001:2018 and BES 6001.

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.

Expose reinforcing steel to 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.

Mixing

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.

Place the mixed Epoxy Mortar E Fine Grade within 30 minutes of priming. If primer is absorbed by a porous substrate, re-prime before applying mortar. For further information and sales please contact your local Parex Office as listed below.

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Instructions For Use

Mixing

Epoxy Mortar E Fine Grade comes in 3 pack sizes:

TP29 - 3kg, 3 containers

TP31 - 10kg, 3 containers

TP44 - 32kg, 4 containers

For each pack size all containers must be used to complete the mix. 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 two minutes.

For larger quantities place the mixed resin system into a suitable forced action mixer such as the Mixal. 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.

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 trowel moistened with Solvent.

Place in layers of approximately 20mm down to a featheredge. In situations where thick 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. For thick applications in the vertical or overhead position use Epoxy Mortar ET.

Place Epoxy Mortar E Fine Grade 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 Fine Grade has started to harden.

Curing

No special curing is required.

Precautions

Health and Safety

Epoxy Mortar E Fine Grade 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 Fine Grade is classified as non-flammable. Solvent is flammable. Should fire occur extinguish with CO₂ or foam.

Storage And Shelf Life

Epoxy Mortar E Fine Grade 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.

Yield

Each 3kg pack will yield approximately 1.5 litres of mixed material.
Each 10kg pack will yield approximately 5 litres of mixed material.
Each 32kg pack will yield approximately 16 litres of mixed material.

Packaging And Ordering

Epoxy Mortar E Fine Grade is supplied in

3kg pack Product Code: TP29

10kg pack Product Code: TP31

32kg pack Product Code: TP44

Bondcoat UF is supplied in:

4kg pack Product Code TM12

0.8kg pack Product Code TM11

Solvent is supplied in :

5 litre tins Product Code: TM02

1 litre tins Product Code: TM08

Steel Primer is supplied in 5kg bags

5kg bag Product Code: ACR04

For further information and sales, please contact your local Parex office as listed below.

Parex Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Parex Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Parex 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.