EPOXY MORTAR ESG
TECHNICAL DATA

Product Code
TP 08, TP10 Packaging listed overleaf.

Description
Epoxy Mortar ESG 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 ESG 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 ESG 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.
- Fixing of kerbstones to roadways.
- Placed support for stanchion bases
- Placed support for bridge bearings.

Typical Mortar Properties @ 20°C

<table>
<thead>
<tr>
<th>Compressive Strengths</th>
<th>1 Day</th>
<th>3 Days</th>
<th>7 Days</th>
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<td>82N/mm²</td>
<td>89N/mm²</td>
<td>95N/mm²</td>
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| Tensile Strength:     | 13N/mm² @ 7 days |
| Flexural Strength:    | 2850N/mm² @ 7 days |
| Density:              | 2050kg/m³ |
| Usable Life:          | 40 minutes |

Standards
Epoxy Mortar ESG has been tested in accordance with the appropriate parts of BS 6319.

Patching, repairs and support shall be carried out using Epoxy Mortar ESG 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.

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.

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 ESG, see section below, within 30 minutes of priming. If primer is absorbed by a porous substrate, re-prime before applying mortar.
Instructions For Use

Mixing
The mixing of Epoxy Mortar ESG 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.

Epoxy Mortar ESG 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 ESG has started to harden.

Curing
No special curing practice is required.

Precautions

Health and Safety
Epoxy Mortar ESG 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 ESG is classified as non-flammable. Solvent is flammable. Should fire occur extinguish with CO₂ or foam.

Storage And Shelf Life
Epoxy Mortar ESG 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 18.7kg pack will yield approximately 9 litres of mixed material.
Each 5.83kg pack will yield Approximately 2.91 litres of mixed material.

Packaging And Ordering
Epoxy Mortar ESG is supplied in 18.7kg packs.
18.7kg pack  Product Code: TP08
5.83kg Tub  Product Code: TP10
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 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.