**webertec EP mortar**

**About this product**

**webertec EP mortar** is available as a three-component bulk pack, consisting of epoxy resin, hardener and selected graded aggregates (filler) which, when mixed, produce a high-strength, impermeable and chemically-resistant mortar.

Conforms with BS EN 1504-3.

**Technical data**

**Pot life and cure time**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Time (at 20°C)</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot life:</td>
<td>1 hour</td>
<td>35 minutes</td>
</tr>
<tr>
<td></td>
<td>40°C</td>
<td>35 minutes</td>
</tr>
<tr>
<td>Initial cure:</td>
<td>6 – 16 hours depending on temperature</td>
<td>2 – 7 days</td>
</tr>
<tr>
<td>Full cure:</td>
<td>6 – 16 hours depending on temperature</td>
<td>2 – 7 days</td>
</tr>
</tbody>
</table>

**Chemical resistance**

All at 20°C

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrol and Oil</td>
<td>Excellent</td>
</tr>
<tr>
<td>Sugar Solution</td>
<td>Excellent</td>
</tr>
<tr>
<td>Sulphuric Acid</td>
<td>Very good</td>
</tr>
<tr>
<td>Nitric Acid</td>
<td>Good</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>Good</td>
</tr>
<tr>
<td>Lactic Acid</td>
<td>Very good</td>
</tr>
<tr>
<td>Acetic Acid</td>
<td>Good</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>Excellent</td>
</tr>
<tr>
<td>Tartaric Acid</td>
<td>Excellent</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

**Constraints**

▲ Not to be used in buildings that are subject to fire regulations

**Features and benefits**

▲ Fast epoxy repair – stronger than concrete in less than 24 hours

▲ High-strength – 2 to 3 times stronger than normal concrete

▲ Impermeable to water, oil, petrol, chemical spillage

▲ Easy to mix and apply

**Uses**

**webertec EP mortar** has negligible shrinkage characteristics, plus high adhesion, making the product ideal for all types of concrete repair including repairs to:

- Precast units
- Spalled and cracked concrete structures
- Floors and other substrates where chemical resistance and/or impermeability to water, oil, petrol and many chemicals is required

**webertec EP mortar** can also be used for bedding:

- Beams
- Runway lights
- Bearings including bridge bearings
**webertec EP mortar**

### Preparation

As with all concrete repairs, it is essential to remove all grease, oil, dust and other loose materials.

**Concrete**

Concrete substrates must be adequately prepared either by use of a suitable mechanical method such as scabbling, grit blasting or needle gunning, or by such other means as appropriate. Concrete bases for toppings must be carefully prepared to give a clean, freshly-exposed, sound, roughened surface.

Old concrete surfaces contaminated with oil or grease require suitable preparation such as steam cleaning in conjunction with a suitable detergent.

Care must be taken to ensure that the oil or grease is removed from the surface and not simply spread over a larger area.

**Steel substrates**

Steel substrates should first be grit blasted to BS 7079-A1 equivalent to Swedish Standard Specification SA 2½, followed by degreasing with a suitable solvent (e.g. webertec solvent) immediately prior to bonding. However, in many instances where corrosion is absent, wire brushing to a clean bright surface may be adequate, but care must be taken not to just polish the rust on the surface.

**Priming**

The bond of webertec EP mortar will be improved by the application of a bond coat of webertec bonding aid, both of which are moisture-tolerant primers.

In all cases, the epoxy mortar must be applied whilst the primer coat is still tacky.

When applying webertec EP mortar to vertical surfaces, webertec EP bonding aid should be used as the bond coat.

### Mixing

the resin and hardener should first be thoroughly mixed to an even colour and consistency before adding the filler. The quantity of the filler may be adjusted to achieve a less viscous consistency, but should never be less than the amount detailed on the packaging.

### Application

The mortar should be applied using a steel trowel in layers of up to 20 mm thick.

Allow initial set (6 hours approximately) between layers. On vertical surfaces the maximum thickness should be 12 mm.

The mortar should be well tamped to ensure proper consolidation and then trowelled to bring up enough resin binder to thoroughly seal the surface.

Feather edging must be avoided. The edges of all repairs should be ‘toed in’ i.e. cut back so the minimum thickness is not less than 5 mm.

webertec EP mortar can be applied to vertical surfaces as well as horizontal. Weber has a range of cementitious mortars, which may be more suitable to a particular application.

### Cleaning

Uncured material may be removed with webertec solvent.

Clean all tools etc, with webertec solvent immediately after use.

### Technical services

Weber’s Customer Services Department has a team of experienced advisors available to provide on-site advice both at the specification stage and during application. Detailed specifications can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.

**Technical helpline**
Tel: 01525 718877  e-mail technical@netweber.co.uk

### Sales enquiries

Weber products are distributed throughout the UK through selected stockists and distributors. Please contact the relevant Customer Services Team below for all product orders and enquiries.

**UK and Ireland**
Tel: 01525 718877  e-mail sales@netweber.co.uk

**Saint-Gobain Weber**
Dickens House, Enterprise Way, Maulden Road, Flitwick, Bedford MK45 5BY, UK
Tel: 01525 718877  e-mail: mail@netweber.co.uk    www.uk.weber

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