

# FibreGrid Rapid Set Concrete Floor Repair Mortar



## Product Description

Our Rapid Set Concrete Floor Repair Mortar is a heavy duty epoxy mortar which has been formulated to enable the rapid repair of concrete surfaces.

It is a pre-weighed three component system of solvent free epoxy resin and hardener which, when blended with the aggregate provided, forms a high strength mortar with outstanding adhesive properties.

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## Characteristics

- Excellent adhesion to concrete, stone, asphalt and metal
- Resistant to a wide range of chemicals
- Tolerant to road salts and freeze-thaw
- Excellent abrasion resistance
- Available in 5kg or 25kg tubs with a coverage of 0.5m<sup>2</sup> per 5kg
- Oil and grease resistant

## Suitable Applications

Repair of worn and damaged:

- Floors
- Spalled expansion joints
- Runways

## Suitable Substrates

- Concrete
- Metal
- Stone
- Asphalt

## Technical Data

Tub weight:	5kg or 25kg
Appearance:	Grey resinous mortar
Set time to allow traffic:	3 hours at 20°C
23°C compressive strength EN12190 50:	50 MPa - 4 hour 60 MPa - 6 hours 75 MPa - 24 hours 87 MPa - 3 days 90 MPa - 7 days
Tensile strength:	13 MPa
Flexural strength:	26 MPa
Modulus of elasticity, in flexure:	20 GPa
Modus of elasticity:	20 GPa
Adhesion - concrete:	≥ 2.0 MPa
Adhesion - after thunder showers:	≥ 2.0 MPa
Skid resistance:	Class 1
Storage:	Store any unused powder for future use - must be stored dry

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Working time:	45 minutes
Full cure:	7 days
Coverage:	1m <sup>2</sup> per 10kg @ 5mm thickness 0.5m <sup>2</sup> per 5kg @ 5mm thickness
Minimum layer thickness:	3mm
Cracking tendency:	No cracking after 180 days
Carbonation resistance:	Passes
Capillary absorption:	≤ 0.5 kg/m <sup>2</sup> /Hr0.5

Technical data shown is statistical and does not correspond to guaranteed minima. Tolerances are those described in appropriate performance standards.

1 N/mm<sup>2</sup> = 1 MPa 1 kN/mm<sup>2</sup> = 1 MGPa

## Preparation

All surfaces should be clean, free from oil, grease and chemical contamination, free standing water, old paint and loose debris. Oil and grease should be removed.

A stronger repair will result if the edges are cut straight with a chisel, angle grinder or similar tool.

Steel should be grit blasted or mechanically abraded to a clean bright finish.

### Mixing

This should be carried out using a handheld drill & whisk.

The Rapid Set Concrete Floor Repair Mortar base and hardener components should be thoroughly mixed in the base container. In cold conditions, it will greatly aid mixing if the materials are stored in warm conditions.

Once the base and hardener are thoroughly mixed they should be transferred to a bucket and the aggregate added slowly.

Mix thoroughly for 3-4 minutes until a homogenous mix is obtained.

## Application

Once mixed, the Rapid Set Concrete Floor Repair Mortar should be applied by either a steel trowel or float, working the mortar into the substrate to ensure maximum distribution of the resin/hardener.

The surface can then be brought to the required finish using a steel float after the mortar has been well compacted.

Finishing is simplified by wiping of the trowel face using a cloth dampened with a solvent based antibacterial cleaner. On thicker sections the material should be compacted in layers, not exceeding 25mm.

All tools and equipment should be cleaned immediately using a solvent based antibacterial cleaner.

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## Maintenance

Remove any excess with a scraper and wash tools before the product sets.

### **Health & Safety**

Rapid Set Concrete Floor Repair Mortar, like similar products, is capable of irritating unprotected skin. We therefore recommend the use of a suitable barrier cream and that gloves be worn.

### **Limitations**

Do not apply below 5°C. At low temperatures it may necessary to aid curing by the use of tenting and warm air blowers.

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