



FibreGrid Rapid Set Concrete Floor Repair Mortar - Cold Cure



Product Description

Our Rapid Set Concrete Floor Repair Mortar - Cold Cure is a general purpose rapid setting concrete repair mortar, ideal for application in low temperature areas.

The cold cure repair is a pre-packed shrinkage compensated, cementitious bedding mortar; characterised by its rapid strength gain which enables work to be carried out with minimal disruption.

Southern Office: Unit 2, Civic Industrial Estate, Homefield Road Central, Haverhill, Suffolk, CB9 8QP
Northern Office: Kingston House, 3 Walton Road, Pattinson North, Washington, Tyne & Wear, NE38 8QA

Online: www.fibregrid.com
Email: sales@fibregrid.com
Phone: 01440 712722
Fax: 01440 712733



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Characteristics

- Rapid strength gain - enables work to be carried out with minimal disruption
- Can be applied in temperatures as low as 3°C
- Excellent adhesion to concrete, stone, asphalt and metal
- Resistant to a wide range of chemicals
- Tolerant to road salts and freeze-thaw
- Resistant to oils and grease

Suitable Applications

- Areas with cold weather conditions
- Refrigerated areas

Suitable Substrates

- Concrete
- Metal
- Stone
- Asphalt

Technical Data

Tub weight:	35kg
Appearance:	Grey powder
Mixing water:	2.2 - 2.85 Litres per 25kg
Set time to allow traffic:	5 hours at 20°C
23°C compressive strength EN12190 50:	8 MPa - 1 hour 30 MPa - 2 hours 40 MPa - 4 hours 50 MPa - 24 hours
Tensile strength:	>3 MPa
Flexural strength:	10 MPa
Modulus of elasticity, in flexure:	>20 GPa
Modus of elasticity:	>20 GPa
Adhesion - concrete:	>2 MPa
Adhesion - after thunder showers:	>2 MPa
Skid resistance:	Class 1
Storage:	Store any unused powder for future use - must be stored dry

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Working time:	10 - 15 minutes
Full cure:	7 days
Yield:	Approx. 12 litres per 25kg pack
Minimum layer thickness:	10mm
Density:	1350 kg/m ³ yield
Water/cement mix:	0.36 at 2.85 litres per 25kg
Capillary absorption:	≤ 0.5 kg/m ² /Hr0.5

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

1 N/mm² = 1 MPa 1 kN/mm² = 1 MGPa



Preparation

The substrate must be clean and sound, hence all grease, oil, dust and laitance must be removed by scarifying. Thoroughly moisten surface but ensure no free water remains.

Mixing & Placement

Rapid Set Concrete Floor Repair Mortar - Cold Cure should be mixed using a forced action mixer. The mixing drum should be pre-wetted and any remaining water drained away.

Add the water to the mixing drum and gradually add all of the powder component whilst the drum is turning.

Continue mixing for two minutes to produce a hydrated and cohesive mortar which is ready for immediate use.

Place the mixed mortar to the desired thickness, allowing for compaction and bed the component.

Minimum bedthickness 10mm.

Finish as required and clean all equipment immediately with water.



Application

Once mixed the Rapid Set Concrete Floor Repair Mortar - Cold Cure 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 - Cold Cure does not present any undue hazard and is non-toxic. However, as it is alkaline, gloves should be worn and any material should be washed from the skin and eyes before it dries with clean water.

The normal standards of hygiene should be observed and the use of a barrier cream is advisable.

Limitations

The minimum application thickness should be 10mm. Minimum application temperature is 3°C. For low temperature applications ensure the substrate has not frozen.

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