

GripRepair 10FR - Light Grey

Polymer Modified Fibre Reinforced Concrete Repair Mortar

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Product description

GripRepair 10FR is a polymer modified fibre reinforced concrete repair mortar designed for structural concrete repairs, such as honeycombed, spalled and damaged concrete.

Uses

GripRepair 10FR is ideal for thick concrete repairs of:

- Precast beams
- Concrete columns
- Concrete walls
- Vertical & overhanging concrete repairs

Advantages

- Easy to mix apply
- Blends in with the existing colour of concrete
- High water resistance & freeze/thaw resistance
- Low shrinkage & crack resistant
- Excellent adhesion properties
- High early strengths

Chemical Base

- High Alumina Cements (high early strengths, and adhesion properties)
- Polymer adhesives
- Non-shrink additives
- Water reducing additives
- Fine aggregates
- And other chemical reagents which enhance the total performance of the repair mortar

Typical Properties

Colour:	PRECAST GREY (light grey)
Wet Density:	2200kg/m ³
Yield:	12.5lt p/25kg bag
Applied @ 12.5mm thick:	1 bag cover 1m ²
Shelf Life:	1 year in original unopened packaging

Physical Properties

Compressive Strength:	<50Mpa @ 28 days
ASTM C – 109	
The compressive strength complies with the minimum requirement as per EN 12190 for Class II which is 50 N/mm ²	
Flexural Strength:	12Mpa
Shrinkage EN 12808-4 : 2009 [mm/m]:	mean value 1.7
28 days Standard Conditions	
Setting time [min]	
Initial set:	240 min
Final set:	420 min

Directions for Use

EXPOSED REBAR & STRUCTURAL CONCRETE REPAIRS

Surface Preparation:

Where necessary cut back to expose sound concrete and reinforcing bars. Mechanically clean reinforcing steel to remove corrosion. Wash reinforcing steel with clean water (to remove soluble salt contamination) and allow to dry. Use hot water and trisodium phosphate to remove grease and oil.

Priming:

Prime all clean and prepared concrete & steel surfaces with **GRIFEPOXY 107 Wet to Dry Epoxy Adhesive @ 1mm thick**. If inserting new reinforcing bars, coat same with **GRIFEPOXY 107 Wet to Dry Epoxy Adhesive** prior to proceeding with the repair.

Repair:

Whilst primer is still wet - carefully apply and compact **GRIPREPAIR 10FR** mortar or **GripGrout GP**. **GRIPREPAIR 10FR** mortar can be applied from 10mm to 35mm dependent on repair size geometry. **GripGrout GP** can be applied from 20mm – 50mm thick (no featheredging).

On larger flat overhanging areas, layers should not exceed 10mm in thickness, though several layers can be applied in quick succession, each layer being allowed to obtain initial set before the next is applied (usually between 20-40 minutes dependent on ambient temperature conditions). Finish off the final surface. Alternatively scratch the first coat after application, allow to dry overnight and then apply second layer. Cure with water or wet hessian.



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Watchpoints

- Do not mix more mortar than can be used within 20 minutes
- Do not provide less than 25mm absolute minimum cover of repair mortar over reinforcement
- Do no re-temper or add water once the material has started to set
- For areas where the repairs are larger than 400mm thick, steel ties with thin mesh should be inserted to support its own weight

Curing

Moisture cure for 24 - 48 hours or apply GripCure Acrylic concrete curing compound.

Packaging

Supplied in 25kg moisture resistant bags.

Storage

Store in dry conditions @ 22°C.

Quality Assurance

Stanton Construction Chemicals CC production and testing programmes comply with all local and international standards.



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