

Polymer modified concrete repair mortar.

Description

GripRepair 1010 is a polymer modified concrete repair mortar designed for multi-purpose concrete repairs, such as honeycombed, spalled and damaged concrete.

Typical Uses

GripRepair 1010 is ideal for thin and thick concrete repairs of:

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

Characteristics/Advantages

- Easy to use (just add clean water)
- Blends in with the existing colour of concrete
- Non-corrosive (will not attack reinforcement)
- Excellent adhesion
- Low shrinkage
- Non-shrinking
- Durable

Surface Preparation

Concrete Surface must be structurally sound, remove all loose concrete. Surfaces must be free of oil, greases, dust, rust, paint laitance and any other contaminants.

Apply a bonding slurry (primer) of equal parts cement, water and **GripKey** to surface.

Mixing

Utilizing a suitable mixer, simply add the water to the powder and mix to desired consistency.

Hand mixing is permissible for one bag mixing. Use 3 to 4 litres of water per 25kg bag.

For extra adhesion a bonding liquid **GripKey** can be added to the mix.

Placing/Application

Immediately apply **GripRepair 1010** to the wet primed surface at the required thickness (featheredge to 25mm) then strike off to desired profile and wood float. As soon as the **GripRepair 1010** has firmed, steel trowel to final finish. Allow a maximum working time of 25 minutes when applying the product to the bonding slurry.

GripRepair 1010



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 **GripEpoxy 107** Wet to Dry Epoxy Adhesive @ 1mm thick. If inserting new reinforcing bars, coat same with **GripEpoxy 107** Wet to Dry Epoxy Adhesive prior to proceeding with the repair.

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.

Mechanical / Physical Properties

Mix Ratio	3.0 – 4.0lt
Ambient temperature at mixing	25°C
Yield	12- 13lt
Compressive Strengths 28 days (ASTM C-109) & (SANS 50196 – 1*)	≥45MPa
Flexural Strengths 28 days (SANS 50196 – 1*)	≥6.5Mpa
Final Set (SANS 50196- 3*)	± 120min

- * test modified ,Prism made out of finished GripRepair 1010 not mixed with DIN sands.

PRODUCT DATA

Colour: Grey

Appearance

Powder

Packaging

25kg plastic lined polypropylene bags

Storage Conditions

Store in a dry cool area, temperature between 5 -25°C

Shelf Life

12 months in original unopened bags, when store in the correct storage conditions.

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