

PRODUCT DATA SHEET

GripRepair 10FR

Polymer Modified Fibre Reinforced Concrete Repair Mortar

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. Ideal for honeycombing and patch repairs.

Characteristics/Advantages:

- Easy to use pre-blended product (just add clean water) with superb placing and finishing characteristics.
- Very low permeability protects steel and resists carbonation and chloride attack.
- Very good placement and finishing characteristics.
- Shrinkage compensated Minimizes tendency of repairs to crack and allow ingress of water and chlorides, especially in harsh environments.

Typical Uses:

Repair of concrete structures and elements such as industrial buildings, water-retaining structures, sewage and effluent concrete systems, tunnels, pipes, columns, stadiums etc.

Surface Preparation:

- Concrete surface or substrate must be structurally sound and fully cured, remove all loose concrete.
- Surfaces must be free of oil, greases, dust, rust, paint laitance and any other contaminants.
- Repair areas must have an aggregate exposed surface.
- Use non-impact cleaning methods to expose the area and clean all reinforcing.

Priming/Structural Bonding:

- No primer is required.
- Saturation of the repair area with water prior to application is highly recommended.
- Surface water should be removed prior to application.
- For poor concrete surfaces it is recommended to prepare the area with a GK45 GripKey for Plaster bonding agent to ensure a good interfacial bond and to seal the area to prevent further ingress of chlorides or carbonation.
- GK45 GripKey for Plaster is specifically designed to match the polymer content of GripRepair 10FR and enhance its performance.
- It is not recommended to use conventional SBR or Styrene Acrylic bonding agents with this product unless otherwise specified by Stanton Construction Chemicals.

For structural bonds use **GripEpoxy 107N – Wet to Dry Epoxy Adhesive** (refer to TDS).

Mixing:

- A mechanical mixer is recommended. Add 2/3 of the water per 20kg bag into the mixing vessel then slowly add the GripRepair 10FR whilst mixing. When the mix stiffens, add the remaining 1/3 of the water and continue mixing until the desired consistency is achieved and free from lumps. Allow material 1 2 minutes to stand and remix without adding any water.
- Hand or manual mixing is not suggested but should no other option be available add no more than 10kg powder to no more than 1.4 litres of water and mix vigorously with a spatula or similar. Increases in water content will result in lower strengths.
- It is recommended to use rubber or "builders" gloves due to the high alkalinity of the product.

Placing/Application:

- **GripRepair 10FR** should be applied by trowel.
- GripRepair 10FR should be built up in layers of up to 30mm. If next layer is applied after
 final set of the product, it is suggested that GK45 GripKey for Plaster be used to bond the
 layers.
- Layers up to 50mm can be placed with lower water content to give a stiffer and stronger mix if required.
- Do not exceed 25mm per layer for overhead applications. For thicker applications consult with Stanton Construction Chemicals on how to best achieve this.
- Do not featheredge the product.

Curing:

Repair areas should be covered as soon as possible after placement with damp hessian or alternatively apply **GripCure Acrylic**. Curing is an essential part of achieving a crack free repair.

Product Data:

| Colour | Grey | | |
|---------------------------|--|--|--|
| Appearance | Powder | | |
| Packaging | 20 kg plastic lined polypropylene bags | | |
| Coverage: | 1 bag of GripRepair 10FR mixed with 3.2lt of water will yield approximately | | |
| | 9-10lt of mortar | | |
| Storage Conditions | Store in a dry cool area, temperature between 5 -25°C | | |
| Shelf Life | 12 months in original unopened bags, when stored in the correct storage | | |
| | conditions. | | |

Mechanical / Physical Properties:

| Mix Ratio | 2.8 – 3.2lt |
|--|--------------------|
| Ambient temperature at mixing | 25°C |
| Yield | Approx. 10lt |
| Horizontal Max Thickness (with lower water dosage) | 50mm per layer |
| Overhead Max Thickness | 20mm |
| Working Temperature | Between 5 and 35°C |

| Compressive Strengths | |
|-----------------------|---------------------------|
| 1 day | ≥16MPa |
| 7 days | ≥30MPa |
| 28 days | ≥40MPa |
| SANS 50196 - 1 | |
| Adhesion (28Days) | ≥1.7Mpa |
| Capillary absorption | ≤0.6kg/m²h ^{0.5} |

Limitations:

- Do not mix more than 3.2lt of water with **GripRepair 10FR**
- Mix only the require amount which can be placed within 10 minutes.
- Discard mixed GripRepair 10FR not used within 30 minutes DO NOT REMIX WITH ADDITIONAL WATER.
- Do not apply if temperature is below 5°C

Health and Safety Information:







Keep out of reach of children. Do not breathe dust. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/ protective clothing/ eye protection. Wash face, hands and any exposed skin thoroughly after handling. For further health and safety information refer to the product SDS.



Stanton Construction Chemicals Pty (Ltd).

Unit 2A Veni View Park 547 Heritage View Drive Muldersdrift, South Africa, 1735

Tel: +27 (0) 10 593-4454 Email: www.office.co.za Website: www.sccsa.co.za



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