

# PRODUCT DATA SHEET

## ***GripGrout GP***

### **Flowable, non-shrink cementitious grout**

#### **Product Description:**

**GripGrout GP** is a highly flowable cementitious based, high strength, non-shrink and non-metallic mix design for high performance grouting applications where ease of placement and suitability for use under high load and where vibration resistance are important.

#### **Chemical Base:**

- Specially selected cementitious blends
- Non-shrink additives
- Water reducing additives
- Graded siliceous aggregates
- And other chemical reagents which enhance the total performance of the grout

#### **Characteristics/Advantages:**

- Easy to use (just add clean water)
- Non-corrosive (will not attack reinforcement)
- Non-metallic
- Non-bleeding
- Excellent adhesion
- Excellent high early and initial strengths
- Very good flow characteristics
- Non-shrinking
- Adjustable consistency (controlled by the amount of water added)

#### **Typical Uses:**

- Grouting: anchor bolts & starter bars
- Bedding: machine bases, column base plates, crane rails
- Concrete Repairs: grouting cavities and voids in concrete

#### **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.

#### **Priming/Structural Bonding:**

No primer required

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

### Mixing:

A mechanical mixer is recommended, but the conventional wheelbarrow and spade is also suitable. Add  $\frac{2}{3}$  of the required water into the mixer then slowly add the **GripGrout GP** whilst mixing, then add the remainder of the water into the mixer until the desired consistency is achieved and free from lumps.

Highly Flowable consistency add up to – 4.5lt water

Flowable consistency add up to – 4.0lt water

Plastic consistency add less than - 3.5lt water

### Placing/Application:

Concrete surface must be saturated first with water (ensure there is no free-standing water)

Mixed **GripGrout GP** should be poured immediately after mixing into the cavity from one point to avoid entrapping air. The **GripGrout GP** should be applied within 10 minutes of mixing.

### Application Properties:

- Minimum grout depth = 10mm
- Maximum grout depth = 150mm
- (Grouting greater than 150mm use **GripGrout BG**)

### Curing:

Grout areas should be covered immediately after placement.

Alternatively apply **GripCure Acrylic** or **GripCure Pliolite** curing compounds.

### Product Data:

|                           |                                                                                    |
|---------------------------|------------------------------------------------------------------------------------|
| <b>Appearance</b>         | Powder                                                                             |
| <b>Colour:</b>            | Grey                                                                               |
| <b>Coverage:</b>          | 1 bag of <b>GripGrout GP</b> mixed with 3.5lt of water will yield 12.5lt of mortar |
| <b>Packaging</b>          | 25kg plastic lined polypropylene bags                                              |
| <b>Shelf Life</b>         | 12 months in original unopened bags, when store in the correct storage conditions. |
| <b>Storage Conditions</b> | Store in a dry cool area, temperature between 5 -25°C                              |

### Mechanical / Physical Properties:

|                                      |                  |
|--------------------------------------|------------------|
| <b>Type of Grout Mix</b>             | Flowable         |
| <b>Mix Ratio</b>                     | 3.5 – 4.5lt      |
| <b>Ambient temperature at mixing</b> | 25°C             |
| <b>Yield</b>                         | 12.5lt to 13.5lt |
| <b>Compressive Strengths</b>         |                  |
| <b>1 day</b>                         | 16               |
| <b>7 days</b>                        | ≥50              |

|                                                                  |                                     |
|------------------------------------------------------------------|-------------------------------------|
| 28 days<br>SANS 50196 - 1                                        | ≥60                                 |
| Tensile Adhesion Strength<br>28 days                             | 0.84 N/mm <sup>2</sup>              |
| Flexural Strength<br>28 days                                     | 9.5 N/mm <sup>2</sup>               |
| SET TIMES<br>Initial Set<br>Final Set<br>SANS 50196 - 3          | ≥60 min<br>≤400 min                 |
| Flow Consistency                                                 | meets CRD-C 226-80<br>Specification |
| Shrinkage EN 12808-4: 2009 [mm/m]<br>28 days Standard Conditions | 0.5                                 |

### Limitations:

- Do not mix more than 4.5lt of water with **GripGrout GP**
- Mix only the require amount which can be placed within 10minutes.
- Discard mixed **GripGrout GP** not used within 30 minutes. DO NOT REMIX WITH ADDITIONAL WATER.
- Do not apply if temperature is below 5°C
- **GripGrout GP** can be used as a concrete floor repair system, in 1m x 1m sections (No greater)
- Cut & break out 1m x 1m sections, minimum depth of 10mm and maximum depth of 150mm.
- (Priming, application & curing, refer to method statement above)
- **GripGrout GP CANNOT BE USED AS A CONCRETE FLOOR OVERLAY OR UNDERLAY.**
- For concrete floor overlays & underlay's use **GripScreed RSL10** or consult a technical sales representative for advice.

### 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.



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