

PRODUCT DATA SHEET

SuperSet Grout

Superior, Non-shrink, Rapid set, Cementitious Grout

Product Description:

SuperSet Grout is a rapid setting flowable cementitious based, high-strength, non-shrink and non-metallic mix designed for high performance grouting applications where ease of placement and fast setting time are important.

Chemical Base:

- Specially selected cementitious blends
- Non-shrink additives
- Water-reducing additives
- Graded siliceous aggregates
- 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
- Fast-setting

Typical Uses:

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

As a flowable grout it is used for anchoring and grouting of anchor bolts, retrofitted reinforcing steel, steel column bases, bearing plates, precast concrete keyways and other installations. As a repair mortar it is used to make partial depth or full depth repairs to concrete surfaces. Non-shrink characteristics make it stable and capable of handling load transfers.

Surface Preparation:

The 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. Saturate repair area with clean water before grouting while ensuring that no standing water is left in the repair area.

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. Add $\frac{2}{3}$ of the required water into the mixer then slowly add the **SuperSet Grout** whilst mixing. Add the remainder of the water into the mixer until the desired consistency is achieved and free from lumps.

Flowable consistency

- 4.0 L water per bag

Plastic consistency

- 3.5 L water per bag

For applications where a more flowable consistency is required, up to 4.5L of water can be added per bag, however this may extend product setting time and decrease early strength gain characteristics.

Placing/Application:

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

Mixed **SuperSet Grout** should be poured immediately after mixing into the cavity from one point to avoid entrapping air. **SuperSet Grout** should be applied within 2 minutes of mixing.

Application Properties:

Minimum grout depth = 10mm

Maximum grout depth = 150mm

(Grouting greater than 150mm use **GripGrout BG** or **BG-RS**)

Curing:

Grout areas should be covered immediately after placement.

Alternatively apply **GripCure Acrylic** curing compound.

Product Data:

Appearance:

Powder

Colour:

Grey

Packaging:

25kg plastic lined polypropylene bags

Coverage:

1 bag of **SuperSet Grout** mixed with 4.0L of water will yield 12.5L of grout

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:

Type of Grout Mix	Flowable
Mix Ratio	3.5 – 4.0 L
Ambient temperature at mixing	25°C
Yield	11.5 L to 12.5 L
Compressive Strengths at 3.5L dosage per bag 3 hour 1 day 7 days 28 days SANS 50196 - 1	 ≥ 10 ≥ 20 ≤ 40 ≤ 60
Tensile Adhesion Strength at 3.5L dosage per bag 28 days	0.84 N/mm ²
Flexural Strength at 3.5L dosage per bag 28 days	9.5 N/mm ²
SET TIMES at 3.5L dosage per bag Initial Set Final Set SANS 50196 - 3	 ≥ 5 min ≤ 60 min
Shrinkage EN 12808-4: 2009 [mm/m] 28 days Standard Conditions	0.5

Limitations:

SuperSet Grout should be mixed with up to 4L of water per 25kg bag. If a fluid consistency is required, up to a maximum of 4.5L of water can be added per bag but this can impact setting time and early strengths.

Mix only the required amount which can be placed within a maximum of 5 minutes. Discard mixed **SuperSet Grout** not used within 8 minutes. DO NOT REMIX WITH ADDITIONAL WATER.

Do not apply if temperature is below 5°C

Setting times can be affected by temperature. For application temperatures lower than 10°C use warm water not exceeding 40°C in temperature so as to accelerate the setting time.

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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