

The Fastener Specialist

Your Construction Supply Specialist

Reg Number: 2018/378047/07 (Pty.Ltd)

Balu-Grout: Technical Data Sheet

Superior, highly flow-able, non-shrink, rapid set, cementitious grout.

Product Description

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

Typical Uses

- Anchoring of Balustrading Posts to concrete
- Grouting of Glass balustrades into concrete
- Grouting: anchor bolts & starter bars
- Bedding: machine bases, column base plates, crane rails
- Concrete Repairs: grouting cavities and voids in concrete

Address: Shop 2 & 3, Delmont Centre, North Reef Road, Corner of Atlas Road, Elandsfontein, 1406, ZA

Office Phone: +27(0) 76 303 5130

Office E-Mail: admin1@fastenerspecialist.co.za

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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.

Priming/Structural Bonding

No primer required

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 **Balu-Grout** whilst mixing, then add the remainder of the water into the mixer until the desired consistency is achieved and free from lumps.

Flowable consistency add up to but do not exceed – 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 **Balu-Grout** should be poured immediately after mixing into the cavity from one point to avoid entrapping air. The **Balu-Grout** should be applied within 4 minutes of mixing.

Application Properties

Minimum grout depth = 10mm

Maximum grout depth = 150mm

PRODUCT DATA

Appearance: Powder

Color: Grey

Packaging: 25kg plastic lined polypropylene bags

Coverage: 1 bag of **Balu-Grout** mixed with 3.5lt of water will yield 12.5lt 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

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Mechanical / Physical Properties

Type of Grout Mix	Flowable
Mix Ratio	3.5 – 4.0lt
Ambient temperature at mixing	25°C
Yield	12.5lt to 13.5lt
Compressive Strengths 3 hour 1 day 7 days 28 days SANS 50196 - 1	≥15 ≥20 ≥48 ≥60
Tensile Adhesion Strength 28 days	0.84 N/mm ²
Flexural Strength 28 days	9.5 N/mm ²
SET TIMES Initial Set Final Set SANS 50196 - 3	≥5 min ≤400 min
Flow Consistency	meets CRD-C 226-80 Specification
Shrinkage EN 12808-4 : 2009 [mm/m] 28 days Standard Conditions	0.5

Limitations

Do not mix more than 4.0lt of water with **Balu-Grout**

Mix only the required amount which can be placed within 5minutes.

Discard mixed **Balu-Grout** not used within 8 minutes, **DO NOT REMIX WITH ADDITIONAL WATER.**

Do not apply if surface temperature area is below 5°C

Setting times can be affected by temperature, for application lower than 15°C warm water no hotter than 50°C can be used to accelerate the setting time.

Health and Safety

Refer to **Balu-Grout** MSDS sheet

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