

JOLUKA

STRUCTURAL GROUT

PRODUCT DESCRIPTION

JOLUKA STRUCTURAL GROUT is a high flowable cement based, high strength, non shrink and non-metallic mix design for high performance grouting applications where ease of placement for use under high unit loads and vibration are important.

CHEMICAL BASE

- **High Alumina Cement (high early strengths, and adhesion properties)**
- **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 water)**
- **Superb initial and retained fluidity**
- **Excellent cohesion and suspension of aggregates**
- **High early strength'**
- **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**
- **Underpinnings**

SURFACE PREPERATION

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

PRIMING/STRUCTURAL BONDING

No primer required. For structural bonds use JOLUKA WET TO DRY EPOXY (refer to spec sheet).

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MIXING

A mechanical mixer is recommended, but the conventional wheelbarrow and spade is also suitable. Add 2/3 of the required water into the mixer then slowly add the JOLUKA STRUCTURAL GROUT whilst mixing, then add the remainder of the water into the mixer until the desired consistency is achieved and free from lumps.

This product can be used from a pourable to a highly fluid consistency depending on the application. The water content can be adjusted from 3L to a pourable mix up to 4.5L for highly fluid application. Use only as much water as is needed to maximize strength and never exceed 4.5L.

PLACING/APPLICATION

Concrete surface must be saturated first with water (ensure there is no free standing water). Mixed JOLUKA STRUCTURAL GROUT should be poured immediately after mixing into the cavity from one point to avoid entrapping air. The JOLUKA STRUCTURAL GROUT should be applied within 10 minutes of mixing. Pouring head is advisable, under normal conditions the pouring head should not be less than 100mm. A diaphragm or fluid placement pump can also be used for placement.

APPLICATION PROPERTIES

Minimum grout depth – 10mm

Maximum grout depth – 150mm

(grouting greater than 150mm use JOLUKA STRUCTURAL GROUT 815)

CURING

Grout areas should be covered immediately after placement. Alternatively apply JOLUKA CURING COMPOUND.

MECHANICAL/PHYSICAL PROPERTIES

Type of Grout Mix	Flowable
Mix Ratio	3.5lt
Yield	12.6lt
Compressive Strengths	
1 day	20Mpa
7 days	38Mpa
28 days	65Mpa
ASTM C-109	
Tensile Adhesion Strength	0.84N/mm ²
28 days	
Flexural Strength	9.5N/mm ²
28 days	
Flowable Consistency	meets CRD-C 226-80 Specification
Shrinkage EN 12808-4: 2009 28 Days Standard Condition	0.9

PRODUCT DATA

Appearance: Powder

Colour: Grey

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 stored in the correct storage conditions.

LIMITATIONS

Do not mix more than 4.0lt of water with JOLUKA STRUCTURAL GROUT. Mix only the required amount which can be placed within 10 minutes. Discard mixed STRUCTURAL GROUT not used within 30 minutes. Do not apply if surface temperature area is below 5°C.