

HIGH GRADE GROUT 100

HIGH STRENGTH PRESSURE GROUTING



DESCRIPTION

Davco High Grade Grout 100 is a premium high strength cementitious non-shrink grout, specially designed for pressure grouting. It is formulated with selected additives and fillers to provide a non-shrink free flowing grout with high strength performance.

Davco High Grade Grout 100 can be used in all grouting situations where shrinkage is undesirable and high grout strength is required.

Primary uses for Davco High Grade Grout 100 are : bedding, filling and grouting applications where complete filling of voids with a high strength non-shrink material is required. It can also be used for spiral connector and underplate grouting, repairs to precast concrete, bedding bearing plates, anchor bolt fixing, cable grouting and crane rail assembly.

ADVANTAGES

- Davco High Grade Grout 100 is a flowable grout, free of bleeding, settlement and shrinkage.
- Consistent high strength performance as all ingredients are premixed in the factory.
- High early and ultimate strength.
- Eliminates shrinkage in both plastic and hardened phases.
- Increased strength when fully restrained.

High flowability.

SURFACE PREPARATION

All surfaces must be cleaned, and free of oil, dust, dirt, paint, curing compound etc. Thoroughly damp all surfaces before starting and keep in a moist condition during placing.

TECHNICAL DATA

Appearance : Grey powder

Water Required :3.8 - 4.3 litres / 25 kg bag for flowable consistency

: 2.8 - 3.3 litres / 25 kg bag for plastic consistency

Flow Consistency

Filler

:10 to 30 sec : Graded Sand

Yield per bag

: Around 0.012m³

Shrinkage ASTM C940:2016

:0% @ 28 days

Expansion ASTM C940:2016 :≤ 0.4% @ 3 days

Compressive Strength ASTM C942: 2015

@ 7 days @ 28 dáys

:≥ 70 N/mm² :≥ 100 N/mm²

Setting Time ASTM C953 : 2010

Final

Pot life

:≤ 10 hours

:30 to 45 min

depend on weather condition

Holding Pressure

: 10 psi / min

or site requirement

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.











HIGH GRADE GROUT 100

MIXING

Dampen the electric mixer blades with water prior to mixing the initial batch of Davco High Grade Grout 100. Ensure that the mixer is free of standing water. Measure up to 3.8 - 4.3 litres, for the 25 kg bag of product. To get a flowable consistency, first pour 80% of the volume in a clean mixing pot. Slowly add the powder & mix continuously to uniform consistency. Add the balance amount of water while continuing to mix until you get to achieve the needed consistency then discard the balance water. Mix for 3 to 5 minutes until a homogeneous consistent grout is achieved.

To achieve plastic consistency, first pour 60% of the required water into the mixing pail and slowly add powder to water while mixing continuously. Continue to add more amount of water while mixing, to get the desired consistency. Discard balance water.

APPLICATION

Underplate

Check that the formwork is sealed against grout leakage and that a minimum hydrostatic head of 100mm can be maintained. Ensure sufficient material is available to complete the work and obtain a continuous fill. Pour from one side only to avoid air entrapment, keeping a head on the grout to promote flow. DO NOT vibrate but rods, straps and chains can be used to aid filling.

Preplaced Aggregate Grout

Grout should be pumped or poured into place. Compressive strength development and ultimate strength of the concrete are reduced slightly compared with flowing grouts.

Grouting Large Volumes

For grouting thickness greater than 75mm, the addition of clean well-graded 10mm aggregates is recommended to reduce temperature rise. Use a maximum of one part aggregate to one part of grout by weight. Conventional concrete pan mixers and pumps can be used for mixing and placement.

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Email: sales@sg.sika.com Website: www.sika.com.sg Online Store: davco-online.com.sg Semi-Precast Pasty Grout Applications For non-shrink pasty grout applications, use about 3.8 to 4.5 litres of water per 25 kg bag.

When placing grout over a large area, it is important to maintain a continuous flow throughout. Work sequence must be properly organised to ensure an unin-

terrupted flow.

Pumping

Davco High Grade Grout 100 may be place using piston, ram or diaphragm type grout pumps fitted with ball valves.

Curing

Immediately after finishing, exposed area should be thoroughly cured with water, or curing compound.

PACKAGING

25 kg bag.

SHELF LIFE

Shelf life of up to 12 months from the date of manufacture when stored in a dry place and free from moisture contact.

HEALTH & SAFETY

In case of eye contact, wash with plenty of water. If irritation persists, seek immediate medical attention. Refer to safety data sheet.

The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect usage. Specifications are subjected to changes without prior notice. Before application, customers and users are requested to check that they have the latest version of this document from our website www.sika.com.sq









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