



Davco

NS GROUT RAPIDEX (II)

HIGH FLUIDITY GROUT



ECO FRIENDLY



HIGH STRENGTH



NON SHRINK

DESCRIPTION

Davco NS Grout Rapidex (II) is a free flowing grout that is specially formulated with high performance cement to achieve rapid strength gain, high fluidity with non-shrink properties and high durability.

Davco NS Grout Rapidex (II) is incorporated with our advanced Dust Less Technology to improve air quality, minimise mess and clean up time on site.

USES

Davco NS Grout Rapidex (II) is ideal for applications where early strength gain is required and in situations where shrinkage is undesirable.

Primary uses are: bedding, filling and grouting applications where complete filling of voids with a high strength non-shrink material is required and time is of essence.

It can be used for underplate grouting, repairs to precast concrete, bedding bearing plates, anchor bolt fixing, cable grouting and crane rail assembly.

ADVANTAGES

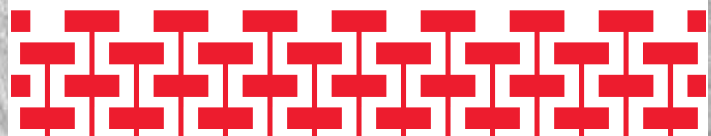
- Fast setting with high early and ultimate strength.
- Minimises downtime as structure can be open to traffic in less than 2 hours.
- Dust Less Technology minimises mess and improves air quality.
- Crack resistant, shrinkage compensating technology eliminates shrinkage in both plastic and hardened phases.

TECHNICAL DATA

Appearance	: Grey powder
Water Required	: 4.5 - 5.25 litres /bag for flowable consistency
	: 3 - 3.5 litres /bag for plastic paste
Consistency (flowcone)	: < 30 seconds
Filler	: Graded Sand
Yield per bag	: Around 0.013m ³
Shrinkage	: None (ASTM C940)
Compressive Strength	: > 40 N/mm ² (ASTM C942)
Setting Time Initial	: Approximately < 40 mins (ASTM C953)
Final	: Approximately < 45 mins
Pot Life at 25°C	: Approximately 20 minutes

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.

BUILDING TRUST





NS GROUT RAPIDEX (II)

SURFACE PREPARATION

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

MIXING

Damp the grout mixer with water prior to mixing the initial batch of Davco NS Grout Rapidex (II). Ensure that the mixer is free of standing water. Add the pre-measured quantity of water. Slowly add Davco NS Grout Rapidex (II), mixing continuously for at least three (3) minutes until a homogeneous consistent grout is achieved. Use 4.5 litres - 5.25 litres water per bag (for flowable consistency) or 3 litres - 3.5 litres water per bag (for plastic paste).

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 complete filling.

Preplaced Aggregate :

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 2.5 part of grout by weight to maximum of one part aggregate. Conventional concrete pan mixers and pumps can be used for mixing and placement.

Typical compressive strengths for a 2.5 : 1 mix of Davco NS Grout Rapidex (II) and 10mm gravel at flowing consistency are:

1 Day 15 N/mm²
7 Days 30 N/mm²
28 Days 45 N/mm²

Pumping

Davco NS Grout Rapidex (II) 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

Davco NS Grout Rapidex (II) is available in 25 kg bag.

SHELF LIFE

Shelf life of up to 6 months from the date of manufacture. Store in a dry place free from moisture contact.

HEALTH & SAFETY

DavcoNS Grout Rapidex (II) is non-hazardous. In case of eye contact, wash with plenty of water. If irritation persists, seek immediate medical attention. Refer to safety data sheet.

Disclaimer

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.sg

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