



GROUT 380 ECO

HIGH FLUIDITY NON SHRINK GROUT



ECO FRIENDLY



HIGH STRENGTH



NON SHRINK

DESCRIPTION

Davco Grout 380 ECO is a one component, shrinkage compensated grout which is specially formulated to have a lower embodied carbon foot print. Davco Grout 380 ECO specially formulated with special additives for high fluidity and is ideal for pressure grouting, requiring only on-site addition of water to provide a non-shrink free flowing grout.

USES

Davco Grout 380 ECO is suitable for use in all grouting 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.

Anchoring of mechanical equipment and steel bars:
Grouting to machine baseplates, bedding bridge bearings and under-plate grouting.

Repairs to precast concrete, anchor bolt fixing, cable grouting and crane rail assembly.

ADVANTAGES

- Davco Grout 380 ECO is an environmentally friendly product.
- It is non gaseous, free of bleeding, settlement and shrinkage.
- Consistent good 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.

TECHNICAL DATA

Appearance	: Grey powder
Filler	: Graded Sand
Yield per bag	: Around 0.013m ³
Shrinkage - ASTM C940 ASTM C940:1998a	: 0%
Compressive Strength BS6319 Part 2:1983	: > 50 N/mm ² (After 7 days)
	: > 60 N/mm ² (After 28 days)
Slant shear bond strength BS EN 12615:1999	: ≥ 20 N/mm ²
Flexural Strength BS EN 1015 Part II:1999	: ≥ 10 N/mm ²
Initial surface absorption BS 1881: Part 208 : 1996	: 0.001/ml/m ² /s
Setting Time ASTM C953:1987	
Initial	: ≥ 1 hr
Final	: ≤ 10 hrs

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.

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.

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GROUT 380 ECO

MIXING

Damp the grout mixer with water prior to mixing the initial batch of Davco Grout 380 ECO. Ensure that the mixer is free of standing water. Add the pre-measured quantity of water. Slowly add the Davco Grout 380 ECO, mixing continuously for at least five minutes until a homogeneous consistent grout is achieved. Use 3.5 litres - 4.25 litres water per bag (for flowable consistency) or 2.7 litres - 3.0 litres water per bag (for plastic consistency).

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:

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.

APPLICATION (CON'T)

Pumping

Davco Grout 380 ECO may be placed 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.

Yield

0.013m³ per 25 kg bag.

PACKAGING

Davco Grout 380 ECO is available in 25 kg bag.

SHELF LIFE

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

HEALTH & SAFETY

Davco Grout 380 ECO 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.parexgroup.com.sg

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