



GROUT 280 ECO

NON SHRINKING REPAIR MORTAR - GENERAL PATCHING GROUT



ECO FRIENDLY



HIGH STRENGTH



NON SHRINK

DESCRIPTION

Davco Grout 280 ECO is a cementitious non-shrink grout with low embodied carbon footprint and is approved by the Eco-labelling authority in Singapore as a sustainable building material. It requires only on site addition of water to produce a high strength, non-shrink grout that is non-corrosive, non-oxidising and free of chlorides and nitrates.

USES

Davco Grout 280 ECO is primarily used for:

- Floor patching.
- Bonding new concrete to old.
- Vertical repair.

ADVANTAGES

- Environmentally friendly.
- Non-shrinking, free of bleeding and settlement.
- High early compressive and flexural strength.
- Achieve strong non-corrosive bonding to steel and concrete.
- Chlorides and iron free.
- Pre-mixed to eliminate site variations and errors.

TECHNICAL DATA

Appearance	: Grey powder
Setting Time	: Initial Set \geq 1 hr
BS EN 196:3:2005 + A1:2008	Final Set \leq 4 hrs
Volume Change -	: 0 to 3%
ASTM C827/827M:2010	
Compressive Strength	: \geq 40 N/mm ²
ASTM C109:2016a	
Bond Strength @ 28 days	: \geq 1.5 N/mm ²
BS EN 12615:1999	
Flow Consistency	: 30 - 45% Flow
ASTM C1437:2015	
Yield per bag	: Around 0.014m ³
Wet Density	: Approx. 2100 kg/m ³
Filler	: Graded Sand
Pot life	: 20 to 45 min
	depend on weather condition

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.





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SURFACE PREPARATION

Substrate should be cleaned and roughened. All loose materials and free water must be removed. Damp the substrate with water before application.

MIXING

For optimum result, mechanical mixer should be used. The recommended amount of water (3.6 litres to 4.5 litres) should be measured and poured into the mixer. Slowly add Davco Grout 280 ECO and mix continuously for 4 to 5 minutes.

APPLICATION

Davco Grout 280 ECO is ready to use with the addition of water.

Floor And Vertical Patching / Repairs:
Compact Davco Grout 280 ECO into the repair area and finish with a steel trowel. Addition of bonding agent improves abrasion resistance:

Davco Grout 280 ECO	25 kg
Davco 751	2 litres
Water	1 - 2 litres

Maximum 25 kg of 3mm gravel / granite chips can be added to this mix without reducing mechanical properties.

Bedding Mortars:
For floor topping / levelling mixes, Davco Grout 280 ECO could be used with Davco 751 to improve adhesion:

Davco Grout 280 ECO	25 kg
Sand (2.4 - 5mm)	5 - 10 kg
Davco 751	3 litres
Water	3 - 4 litres

*Amount of sand added depend on site application

WATERPROOF GROUT

Dilute 0.3 litres of Davco No. 1 with 4.2 litres of water. Use the diluted mixture to mix with 25 kg bag of Davco Grout 280 ECO. Use a mechanical mixer to mix for about 4 - 5 minutes until a smooth and homogeneous consistency is achieved.

Curing:

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

PACKAGING

Davco Grout 280 ECO is available in 25 kg bag.

SHELF LIFE

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

HEALTH & SAFETY

Davco Grout 280 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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