



# GROUT 480 ECO

## HIGH STRENGTH NON SHRINK GROUT



ECO FRIENDLY



HIGH STRENGTH



NON SHRINK

### DESCRIPTION

Davco Grout 480 ECO is an eco-friendly, general purpose non-shrink grout with low embodied carbon footprint. Davco Grout 480 ECO is specially formulated with high strength cement and expansive agent to produce a high strength, non-shrink grout that is non-corrosive, non-oxidising and free of chlorides and nitrates, when mixed with water.

### USES

Davco Grout 480 ECO is primarily used for:

- Structural concrete repairs
- Vertical and horizontal repairs
- Floor patching.
- Filling of voids, cavities and rigid joints.

### 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-blend to eliminate site variations and errors.

### SURFACE PREPARATION

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

### TECHNICAL DATA

Appearance	: Grey powder
Setting Time BS EN 196 - 3:2005 + A1:2008	: Initial Set $\geq$ 1 hr : Final Set $\leq$ 10 hrs
Volume Change ASTM C827:2001 a (2005)	: 0 to 3%
Compressive Strength BS 6319:Part 2:1983	: $>$ 50 N/mm <sup>2</sup> (After 7 days)  : $>$ 60 N/mm <sup>2</sup> (After 28 days)
Flexural Strength BS EN 1015 Part 11:1999	: $\geq$ 9 N/mm <sup>2</sup>
Slant Shear Bond Strength BS EN 12615:1999 @ 28 days	: $\geq$ 20 N/mm <sup>2</sup>
Initial surface absorption BS 1881: Part 208 : 1996	: 0.001/ml/m <sup>2</sup> /s
Yield per bag	: Around 0.014m <sup>3</sup>
Wet Density	: 2000 - 2300 g/cm <sup>3</sup>
Filler	: Graded Sand

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





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## MIXING

For optimum result, mechanical mixer should be used. The recommended amount of water (2.7 litres to 3.0 litres) should be measured and poured into the mixer. Slowly add Davco Grout 480 ECO and mix continuously for 4 to 5 minutes.

## APPLICATION

Davco Grout 480 ECO is ready to use with the addition of water.

Floor And Vertical Patching / Repairs:

Compact Davco Grout 480 ECO into the repair area and finish with a steel trowel. Addition of bonding agent improves abrasion resistance:

Davco Grout 480 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.

Curing:

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

Yield:

0.014m<sup>3</sup> per 25 kg bag.

## PACKAGING

Davco Grout 480 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

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](http://www.sika.com.sg)

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