

PRODUCT DATA SHEET

Davco® Grout 280 ECO

General purpose shrinkage compensated cementitious grout

DESCRIPTION

Davco® Grout 280 ECO is a cementitious non-shrink grout with shrinkage-compensating properties designed for all general purpose grouting and repairs. It has low embodied carbon footprint and is approved as a sustainable building material by the Eco-labelling authority in Singapore. 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:

- Grouting of joints between precast and structural components.
- Bonding of new concrete to old.
- Repairs to concrete structures and pre-cast components.
- Patch repairs to vertical, soffit and flooring concrete surfaces.

CHARACTERISTICS / ADVANTAGES

- Environmentally friendly.
- Non-bleeding and non-segregation.
- Shrinkage-compensating.
- High early compressive and flexural strength.
- Non-corrosive and non-toxic.
- Chlorides and iron free.
- Pre-mixed to eliminate site variations and errors.

CERTIFICATES AND TEST REPORTS

Certified Green Label product under Singapore Green Building Council (SGBC), Certificate No. SGBP 3616, 4 Ticks “Leader”

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf Life	6 months from date of production
Storage Conditions	Store in dry condition in original, unopened and undamaged packaging. Keep away from water, rain and moisture.

TECHNICAL INFORMATION

Compressive Strength	> 40 N/mm ²	(ASTM C109:2016a)
Tensile Adhesion Strength	≥ 1.5 N/mm ²	(BS EN 12615:1999)

APPLICATION INFORMATION

Mixing Ratio	3.6–4.5 L of water per 25 kg bag
Yield	~0.014m ³ / bag
Pot Life	20–45 minutes depend on weather condition
Flowability	30–45 % (ASTM C1437:2015)
Setting Time	< 4 hours (BS EN 196:3:2005 + A1:2008)
Initial Set Time	> 1 hour (BS EN 196:3:2005 + A1:2008)
Fresh Mortar Density	2100 kg/m ³

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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

Use a steel trowel to apply the mixed material onto the repair area. If the area that needs to be rectified is congested and cannot be reached with a trowel, use hands (wearing gloves) to push the pasty grout against the substrate and then trowel to a smooth finish. For application of joints between adjacent precast components, ensure that the material covers the joint spaces thoroughly.

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Product Data Sheet
Davco® Grout 280 ECO
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For horizontal joints, the subsequent precast component should be laid onto the grout within the pot life of 45 minutes after mixing, depending on ambient temperature and conditions.

CURING TREATMENT

Immediately after finishing, exposed area should be thoroughly cured with wet hessian or curing compound, e.g. Sika® Antisol®.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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