

PRODUCT DATA SHEET

SikaGrout®-380

(formerly Davco® Grout 380 ECO)

HIGH FLUIDITY NON SHRINK GROUT

DESCRIPTION

SikaGrout®-380 is a one component, shrinkage compensated grout which is specially formulated to have a lower embodied carbon foot print. SikaGrout®-380 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

SikaGrout®-380 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
- Under-plate grouting.
- Repairs to precast concrete
- Anchor bolt fixing
- Cable grouting and crane rail assembly.

CHARACTERISTICS / ADVANTAGES

SikaGrout®-380 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.

PRODUCT INFORMATION

Packaging	25 kg
Shelf Life	12 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight and frost.

TECHNICAL INFORMATION

Compressive Strength	> 50 N/mm ² (7 days)	(BS 6319: Part 2:1983)
Tensile Strength in Flexure	> 9 N/mm ² (28 days)	(BS EN 1015-11:1999)
Shear Adhesion	> 20 N/mm ² (28 days) *slant shear bond strength	(BS EN12615:1999)
Water Absorption	< 0.005 ml/ml ² /s *Initial surface water absorption	(BS 1881:Part 208: 1996)

APPLICATION INFORMATION

Mixing Ratio	Flowable consistency 3.5 - 4.25 Ltr	Plastic consistency 2.7 - 3.0 Ltr
Yield	0.013 m ³ per 25 kg bag.	
Initial Set Time	≥ 1 hr	
Final Set Time	≤ 10 hrs	

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.

LIMITATIONS OF USE

- At temperatures below +20°C, setting time and strength development will be slower.
- Non-shrink grout contains additives which expand either during the plastic stage and / or the hardening stage to compensate for the shrinkage of the cementitious matrix. However, this 'non-shrink' property will be effective only if the material is not subjected to water loss.
- This is confirmed by a note in the ASTM C 1107 Standard Specification for packaged dry, hydraulic cement grout (non-shrinkable), which clarifies the behaviour of the non-shrink grout when subjected to some drying:
"Note 1: Since all conditions of use cannot be anticipated, this specification requires non-shrink grout to exhibit no shrinkage when tested in a laboratory controlled moist-cured environment, and requires only the reporting of the observed height change, usually shrinkage, when test specimens are subject to some degree of drying."

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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 SikaGrout®-380. Ensure that the mixer is free of standing water. Add the premeasured quantity of water. Slowly add the SikaGrout®-380, mixing continuously for at least five minutes until a homogeneous consistent grout is achieved.

APPLICATION

Underplate

Check that the formwork is sealed against grout leakage and that a minimum hydrostatic head of 100 mm 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 50 mm, the addition of clean well-graded 10 mm 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.

Pumping

SikaGrout®-380 may be placed using piston, ram or diaphragm type grout pumps fitted with ball valves.

CURING TREATMENT

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

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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