

## PRODUCT DATA SHEET

# SikaGrout<sup>®</sup>-480

(formerly Davco<sup>®</sup> Grout 480 ECO)

### HIGH STRENGTH NON SHRINK GROUT

#### DESCRIPTION

SikaGrout<sup>®</sup>-480 is an eco-friendly, general purpose non-shrink grout with low embodied carbon footprint. SikaGrout<sup>®</sup>-480 is specially formulated with high strength cement and expansive agent to produce a high strength, non-shrink grout when mixed with water.

#### USES

SikaGrout<sup>®</sup>-480 is primarily used for :

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

#### CHARACTERISTICS / 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.
- Pre-blend to eliminate site variations and errors.

#### PRODUCT INFORMATION

<b>Packaging</b>	25 kg/bag
<b>Shelf Life</b>	Shelf life of up to 12 months from the date of manufacture
<b>Storage Conditions</b>	Stored in a dry place free from moisture contact.
<b>Density</b>	2000 - 2300 g/cm <sup>3</sup> *Wet Density

#### TECHNICAL INFORMATION

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

## APPLICATION INFORMATION

Mixing Ratio	2.7 litres to 3.0 litres
Yield	0.014m <sup>3</sup> 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

- 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.

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

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

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## MIXING

For optimum result, mechanical mixer should be used. The recommended amount of water should be measured and poured into the mixer. Slowly add SikaGrout®-480 and mix continuously for 4 to 5 minutes.

## APPLICATION

SikaGrout®-480 is ready to use with the addition of water.

### *Floor And Vertical Patching / Repairs:*

Compact SikaGrout®-480 into the repair area and finish with a steel trowel. Addition of bonding agent improves abrasion resistance:

SikaGrout®-480	25 kg
Davco 751	2 ltr
Water	1 - 2 ltr

## CURING TREATMENT

Immediately after finishing, exposed area should be thoroughly cured with wet hessian 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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