

PRODUCT DATA SHEET

SikaGrout®-168 Panel

(formerly Davco® Panel Grout ECO)

FIBRE-REINFORCED, NON SHRINK CEMENTITIOUS PANEL GROUT



DESCRIPTION

SikaGrout®-168 Panel is an eco friendly, non shrink grout that is ideal for fixing the joints of both Precast Concrete Panels and Light Weight Panels. It is fibre reinforced to prevent hairline cracks, and to strengthen the adhesion between panels.

USES

SikaGrout®-168 Panel is designed for use as panel adhesive between panels in the installation of Precast Concrete and Light Weight Concrete Walls.

CHARACTERISTICS / ADVANTAGES

- Environmentally friendly product.
- Fibre reinforced to prevent hairline cracks from occurring.
- Non shrink to prevent drying shrinkage.
- Premixed for ease of use and good consistent quality.
- Good weather resistance and highly durable.

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 3621

PRODUCT INFORMATION

Packaging	25 kg/bag
Appearance / Colour	Grey Powder
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	≥ 40	(ASTM C109 : 2016a)	
Joint width	Joint to Joint Thickness 2.0 mm to 20.0 mm thick		
Shear Adhesion	Slant shear bond strength ≥ 1.5	(BS EN 12615 : 1999)	
Change of volume	Lower limit	0	(ASTM C827 / C827M : 2010)
	Upper limit	+ 3	

APPLICATION INFORMATION

Mixing Ratio	4.5 - 5.5 ltr of water to 25 kg	
Consumption	~ 20 m ² / 25 kg (per mm thick)	
Pot Life	< 60 minutes	
Open Time	≤ 20 minutes @ 25 °C	
Initial Set Time	≥ 60	(BS EN 196 : 3 : 2005 +A1 : 2008)
Final Set Time	≤ 240	(BS EN 196 : 3 : 2005 Final ≤ 240 +A1 : 2008)

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.

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APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surface should be cleaned and loose materials, dust, oil or traces of foreign materials removed. Damp the surface with water before application.

MIXING

Mix thoroughly using an electrical mixer or a paddle mixer for 3 to 5 minutes until the desired homogeneous paste is achieved. Ensure the mixed grout is free from lumps and workable.

Allow the mixture to stand for a few minutes, then re-mix again before use.

APPLICATION

SikaGrout®-168 Panel can be applied to joint substrate with an appropriate trowel or pumped to fill the gap between panels. The material can be applied at a recommended thickness of 2 - 20 mm. Ensure good contact is achieved between joint adhesive and panel surface.

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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