

PRODUCT DATA SHEET

SikaGrout[®]-266 Eco HK

MULTI-PURPOSE NON-SHRINK (SHRINKAGE COMPENSATED) CEMENTITIOUS GROUT RECYCLED WASTE MATERIALS

DESCRIPTION

SikaGrout[®]-266 Eco HK is a non-shrink (shrinkage compensated) modified cementitious grout. It contains recycled waste materials which leads to a reduced carbon footprint compared to an equivalent performing cementitious grout.

USES

- Machine foundations
- Columns in precast construction
- Concrete anchors
- Bridge bearings
- Cavities
- Gaps
- Recesses
- Rail beds

CHARACTERISTICS / ADVANTAGES

SikaGrout[®]-266 Eco HK is an economical and easy to use material requiring the simple addition of water.

Other beneficial properties are :

- Uses recycled waste materials
- Easy to mix and apply
- Good flow characteristics
- Rapid strength development
- High ultimate strengths
- Impact resistant
- Non-corrosive
- Non-metallic and chloride free
- Shrinkage compensation ability

PRODUCT INFORMATION

Chemical Base	Cement based powder
Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf Life	9 months from date of production
Storage Conditions	Stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.
Bulk Density	1,538 g/cm ³

TECHNICAL INFORMATION

Compressive Strength	~ 20 MPa @ 1 day (Flow consistency) ~ 40 MPa @ 7 days (Flow consistency) ~ 50 MPa @ 28 days (Flow consistency)
Tensile Strength in Flexure	~ 5 MPa @ 1 day ~ 8 MPa @ 7 days ~ 9 MPa @ 28 days
Shrinkage	< 1.0 mm/m @ 28 days (Flow Consistency)

APPLICATION INFORMATION

Mixing Ratio	Approx. 5 litres water per 25 kg bag (flow consistency)			
		<u>Flowable</u>	<u>Pourable</u>	<u>Stiff</u>
	Water	~ 5.0 litre	~ 4.0 litre	~ 3.3 litre
	Content/bag			
	Volume	13.8 litre	13.2 litre	12.5 litre
Coverage (bags/m ³)	72	76	80	
Flowability	~ 28 s (Flow Cone Time) ~ 130 mm (Flow Ring) > 300 mm (Flow Table)			

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces should be clean, sound and free from oil, grease, laitance and loosely adhering particles. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease. All absorbent surfaces must be well saturated with clean water, but be free of any surface water or puddles prior to the application of SikaGrout®-266 Eco HK.

MIXING

Place 70–80 % of the premeasured clean water (depending on consistency required - refer to 'Mix Ratio') into a clean container and gradually add the whole bag of SikaGrout®-266 Eco HK into it while continuously mixing. Add the remaining water until the desired consistency is obtained. Mix for 2–3 minutes with a low speed drill (maximum 500 rpm) until the mixture become homogeneous. Hold the fresh mortar in the container for 1–2 minutes, and then mix again for 1–2 minutes.

APPLICATION

After mixing, stir lightly with a spatula for a few seconds to release any entrapped air. The grout is then poured immediately into the prepared formwork. When carrying out base plate grouting, ensure sufficient pressure head is maintained for uninterrupted mortar flow. For formwork repair, the prepared formwork must be firmly in place and kept watertight. When placing grout over a large area, it is important to maintain a continuous flow throughout. Work sequence must be properly organized to ensure an uninterrupted flow.

For sections thicker than 200 mm or for large grouting areas, it is necessary to mix SikaGrout®-266 Eco HK with graded 10 mm silt free aggregates to minimize temperature rise generated during curing stage. The quantity of aggregates should not exceed 1 part aggregates to 1 part SikaGrout®-266 Eco HK by weight. Other precautions such as the use of chilled water, insulation of the formwork or baseplate may be required. Please consult Technical Service Department for assistance. To further ensure that air entrapped during mixing is allowed to fully escape, it may be necessary to make breather holes. Use steel rods or chains to assist the flow of grout where necessary.

CLEANING OF TOOLS

Clean all tools and equipment with water immediately after use. Hardened mortar can only be mechanically removed.

FURTHER DOCUMENTS

- Maximum thickness per pour is 200 mm and minimum is 10 mm.
- Maximum thickness per pour with aggregates is 500 mm.
- At temperature 20 °C and below, 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, non-shrink property will be effective only if the material is not subjected to water loss.

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.

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.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

SikaGrout®-266 Eco HK
May 2020, Version 01.01
020201010010000362

SikaGrout-266EcoHK-en-HK-(05-2020)-1-1.pdf