BUILDING TRUST

PRODUCT DATA SHEET

SikaGrout®-9005

Specialized lubrication mix with ultra high strength to ease the installation of SikaGrout®-9000 series

DESCRIPTION

SikaGrout®-9005 is a ultra high-strength cementitious mix that lubricates pump installation equipment, producing a flowable, cohesive mix when mixed with water. Advanced binder technology combines high quality cement and chemical additives, ensuring optimal performance and ease of use.

USES

SikaGrout®-9005 has been especially formulated for lubricating installation equipment used in large scale, pump applications of the SikaGrout®-9000 series of grouts. Contact the Technical Department of your local Sika office regarding any application required not mentioned here.

CHARACTERISTICS / ADVANTAGES

- Excellent lubricating properties.
- Non-shrink non-gaseous expansion system
- Excellent flowability.
- High mechanical and adhesive strength.
- Final strength similar to SikaGrout®-9000 series of products.
- Available in special, watertight big bags for large scale application.
- High resistance to water & ion penetration

PRODUCT INFORMATION

Packaging	SikaGrout®-9005 is supplied in special 25 kg bags and 200 kg watertight big bags	
Shelf Life	6 months from date of production for 25 kg bags 12 months from date of production for 200 kg big bags	
Storage Conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions away from direct sunlight and heat, not exceeding 35 °C. When stored under high temperature and high humidity conditions, the shelf life may be reduced.	
Density	2.25–2.34 ton/m³	(EN 12390-7)
Maximum Grain Size	75 µm	

TECHNICAL INFORMATION

Compressive Strength	1 day	> 80 N/mm²	(ASTM C942 / ASTM C109)
	3 days	> 100 N/mm²	
	7 days	> 115 N/mm²	
	28 days	> 135 N/mm²	
	91 days	> 140 N/mm²	
Modulus of Elasticity in Compression	> 30,000 N/mm²		(EN 12390-13)
Tensile Strength in Flexure	> 18.0 N/mm²		(EN 1015-11)
Tensile Strength	> 7.5 N/mm²		(ASTM C307)
Expansion	Age	Expansion	(ASTM C1698)
	91 days	+0.01 % to +0.05 %	
Tensile Adhesion Strength	Substrate	Direct tensile bond strength	(ASTM C307)
	Sand mortar[1]	2.9 N/mm²	
	UHPC[2]	3.8 N/mm²	
	1: Direct tensile strength 4.3 N/mm² 2: Direct tensile strength 8.3 N/mm²		
Shear Adhesion	Substrate	Shear bond strength at 14 days	(ASTM C882)
	Concrete[1]	Shear bond failure > 40 N/mm²	
	1: Compressive strength: 115 MPa		
Dry Fibre Modulus of Elasticity in Tension	0.20		(ASTM C469)
Chloride Ion Diffusion Resistance	< 1000 Coulomb (Very low penetrability)		(ASTM C1202)

APPLICATION INFORMATION

Mixing Ratio	Temperature	Water ratio
	2–10 °C	22 % by mass of powder
	> 10–20 °C	19–21 % by mass of powder
	> 20–35 °C	21 % by mass of powder
Yield	Approximately 10 kg of dry material yields 5.3 liters of grout.	
Layer Thickness	10–300 mm	
Ambient Air Temperature	2 °C min. / +35 °C max.	
Substrate Temperature	5 °C min. / +40 °C max.	
Pot Life	3 hours	

Flowability	**Test type**	**Result**	**Standard**
	Flow table	400–450 mm	ASTM C1437
	Flow trough	> 650 mm	EN 13395-2
	Flow cone	180–240 sec	ASTM C939

Setting Time	5–7 hours

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

NOTES ON INSTALLATION

- SikaGrout®-9005 has been especially formulated for use in specific applications. As such SikaGrout®-9005 should be installed by experienced fully trained contractors.
- Sands or other products that could affect the products properties must not be added.
- SikaGrout®-9005 which will be exposed to strong drying conditions, e.g. mortar which is directly exposed to heavy wind and/or direct sunlight, should be protected using appropriate curing agents.
- When used at temperature above 35 °C, the reduction of pot life can cause difficulties in applications. For elevated temperature application, please consult Sika for technical support.

EQUIPMENT

Mixer type	Paddle mixer
Mixing time	Approximately 4–6 minutes

CLEANING OF TOOLS

Tools and spillages can be cleaned with water while SikaGrout®-9005 is still uncured. Once hardened, the material can only be removed mechanically.

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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