

## PRODUCT DATA SHEET

# SikaGrout<sup>®</sup>-9600

Bulk supplied, offshore grout with applied nanotechnology for grouting foundations of wind turbine foundations

### DESCRIPTION

SikaGrout<sup>®</sup>-9600 is a shrinkage compensated grout which when mixed with water, produces a homogeneous, flowable and pumpable grout. Latest best binder packing models and applied cementitious nanotechnology produces a grout with superior technical performance, and exceptional rheological properties.

### USES

SikaGrout<sup>®</sup>-9600 has been especially formulated for large scale, pump applications.

- For use as high strength grout in offshore foundations such as monopiles using bolted connections
- For skirt backfilling in offshore applications
- Grouting under very harsh conditions, e.g. at temperatures as low as 0°C.

Contact the Technical Department of your local Sika office regarding any application required not mentioned here.

### FEATURES

- Excellent strength development even at cold temperatures.
- Available as silo material.
- Can be applied in the shortest weather windows.
- Excellent strength gain.
- No segregation or bleeding to ensure consistent final physical performance.
- For applications in a wide temperature range.
- Excellent flow and pumping properties reduce installation times and costs.
- Very fast grout installation: no interference with the critical path of the installation vessel. Grout installed while bolts of the foundation are initially tensioned.
- Pumpable through 2" grout lines.
- Volume stable.
- Installation with continuous and closed grouting process. No batching of individual mixes.

### PRODUCT INFORMATION

<b>Packaging</b>	SikaGrout <sup>®</sup> -9600 is supplied by bulk transport and is stored in special job-site silos
<b>Shelf life</b>	6 months from date of production
<b>Storage conditions</b>	Product must be stored in closed silos under dry conditions
<b>Density</b>	2.25 (±0.05) gr/cm <sup>3</sup>

## TECHNICAL INFORMATION

<b>Compressive strength</b>	<b>Age</b>	<b>MPa</b>	(EN 12390-3)		
	1 day	≥ 25			
	7 days	≥ 60			
	28 days	≥ 75			
	Results of 75 mm cubes tested at 20 °C				
	<b>Cylinder compressive strength:</b>				
	Mean cylinder strength	> 90.0 MPa	(EN 12390-3)		
	Characteristic cylinder strength	> 85 MPa			
	Characteristic strength is calculated according to DIN EN 1990				
	<b>Prism compressive strength:</b>				
<b>Age</b>	<b>2 °C</b>	<b>20 °C</b>	<b>30°C</b>	(EN 196-1)	
28 days	> 85 MPa	> 95 MPa	> 110 MPa		
<b>Exposure classes:</b>					
XO, XC4, XD3, XS2, XS3, XF3, XA2,WA					(EN 206)
<b>Modulus of elasticity in compression</b>	≥ 37.000 MPa			(EN 12390-13)	
<b>Flexural-strength</b>	<b>2 °C</b>	<b>20 °C</b>	<b>30 °C</b>	(EN 196-1)	
	≥ 12.0 MPa	≥ 13.0 MPa	≥ 13.0 MPa		
<b>Shrinkage</b>	<b>Age</b>	<b>mm/m</b>			
	14 days	-0.135			
	Tested according to Schleibinger method				
<b>Resistance to fire</b>	A1			(EN 13501-1)	
<b>Bleeding</b>	No bleeding				
	<b>Sedimentation stability:</b> No Sedimentation Tested according to DAFStb guideline				

## APPLICATION INFORMATION

<b>Mixing ratio</b>	130 (± 10) litres / 1000 kg powder		
<b>Consumption</b>	1000 kg powder will yield approximately 480 to 525 litre of mixed grout.		
<b>Layer thickness</b>	30 - 400 mm		
<b>Material temperature</b>	+0 °C min. / +30 °C max.		
<b>Ambient air temperature</b>	+0 °C min. / +30 °C max.		
<b>Substrate temperature</b>	+0 °C min. / +30 °C max.		
<b>Pot Life</b>	≥ 120 minutes		
<b>Flowability</b>	<b>Slump flow</b>	≥ 650 mm	(EN 1015-3; EN 12350-8)
	<b>Spread of flow</b>	≥ 290 mm	

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## FURTHER DOCUMENTATION

Sika Method Statement: SikaGrout®-9600

## IMPORTANT CONSIDERATIONS

- Sands or other products that could affect the products properties must not be added.
- SikaGrout®-9600 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.
- Seek advice for any application not covered in this datasheet.

## 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®-9600 has been especially formulated for use in specific applications. As such SikaGrout®-9600 should be installed by experienced fully trained contractors. Full application procedures are available on request.

## MAINTENANCE INSTRUCTIONS

### CLEANING

Tools and spillages can be cleaned with water while SikaGrout®-9600 is still uncured. Once hardened, the material can only be removed mechanically.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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.

#### Sika Gulf B.S.C. (c)

Tel: +973 177 38188

Email: info@bh.sika.com

Sika Kuwait Cons. Mat. & Paints Co WLL

Tel: +965 22 282 296

Email: sika.kuwait@kw.sika.com

Web: gcc.sika.com

#### Sika UAE LLC

Sika UAE LLC (Branch)

Sika International Chemicals LLC

Tel: +971 4 439 8200

Email: info@ae.sika.com

Web: gcc.sika.com

#### Sika Saudi Arabia Limited

Riyadh / Jeddah / Dammam / Rabigh

Tel: +966 9200 22167

Email: info@sa.sika.com

Web: gcc.sika.com

#### Sika MB LLC

Oman

Tel: +968 22 826 500

Email: info@om.sika.com

Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS:  
- Sika UAE LLC  
- Sika International Chemicals LLC  
- Sika Gulf B.S.C. (c)  
ISO 9001, 14001 – SGS:  
- Sika Saudi Arabia Limited  
ISO 9001, 14001 – TÜV:  
- Sika UAE LLC (Branch)  
ISO 9001 – SGS:  
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



#### Product Data Sheet

SikaGrout®-9600

June 2026, Version 04.01

020201000000002076