

PRODUCT DATA SHEET

SikaGrout®-9600 US

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

PRODUCT DESCRIPTION

SikaGrout®-9600 US 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®-9600 US has been especially formulated for large scale, pump applications.

- Grouting of the non-structural parts of offshore wind turbine installations
- For use as high performance grout in offshore foundations like monopiles using bolted connections
- For skirt backfilling in offshore applications
- Grouting under very harsh conditions, e.g. at temperatures as low as 2°C.

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

CHARACTERISTICS / ADVANTAGES

- Compressive strength class C60/75, even at cold temperatures.
- Available as bulk supply.
- 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.
- No dust formation during grouting, ensuring safe handling for grouting workers and other personnel.

PRODUCT INFORMATION

Packaging	SikaGrout®-9600 US is supplied by bulk transport and is stored in special jobsite silos
Shelf Life	6 months from date of production
Storage Conditions	Product must be stored in closed silos under dry conditions
Density	2250 - 2300 kg/m ³ (ASTM C185)

TECHNICAL INFORMATION

Compressive Strength	<u>Age</u>	<u>Psi (N/mm²)</u>	(ASTM C109/C109M)
	1 day	≥ 3625 (25)	
	7 days	≥ 8700 (60)	
	28 days	≥ 10875 (75)	
	Concrete strength class: C60/75		(EN 206)
	Exposure classes: XO, XC4, XD3, XS2, XS3, XF4, XA2, WA		(DIN 1045-2; EN 206)
Modulus of Elasticity in Compression	> 37.000 N/mm ²		(ASTM C469)
Flexural Strength	<u>Age</u>	<u>Psi (N/mm²)</u>	(ASTM C348)
	7 days	> 1900 (13.1)	
	28 days	> 2000 (13.8)	
Shrinkage	Autogenous shrinkage:		
	<u>Age</u>	<u>mm/m</u>	(ASTM C1698)
	14 days	-0.248	
Bleeding	No bleeding		

APPLICATION INFORMATION

Coverage	One 2200 lb bulk bag will yield approximately 22 cubic feet.		
Layer Thickness	1"-15" (30 - 400 mm)		
Flowability	> 11" (290 mm) spread at zero drops		(ASTM C1437)
Product Temperature	+36 °F min. / +86 °F max. (+2 °C min. / +30 °C max.)		
Ambient Air Temperature	+36 °F min. / +86 °F max. (+2 °C min. / +30 °C max.)		
Mixing Ratio	275 lbs ± 10 water / 2200 lb bulk bag (125 ± 5 litres / 1000 kg powder)		
Substrate Temperature	+36 °F min. / +86 °F max. (+2 °C min. / +30 °C max.)		
Pot Life	≥ 120 minutes		(ASTM C191)

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

AVAILABILITY/WARRANTY

Sika Method Statement: SikaGrout®-9600 US

LIMITATIONS

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

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

NOTES ON INSTALLATION

SikaGrout®-9600 US has been especially formulated for

use in specific applications. As such SikaGrout®-9600 US should be installed by experienced fully trained contractors. Full application procedures are available on request.

CLEANING OF TOOLS

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

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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