

SikaGrout®-9800

PRODUCT DATA SHEET

High strength grout with applied nanotechnology for grouting offshore wind turbine installations

DESCRIPTION

SikaGrout*-9800 is a shrinkage compensated, cement based grout which when mixed with water, produces a homogeneous, flowable and easy pump able grout with exceptional mechanical and physical properties. Latest best binder packing models and applied cementitious nanotechnology produces a grout with superior technical performance and exceptional rheological properties.

USES

SikaGrout*-9800 has been especially formulated for large scale, pump applications.

- Grouting of grouted connections in offshore installations, e.g. foundations of wind turbines or oil & gas installations.
- Typical applications are pile-sleeve and stab-in-pile grouted connections, clamp repair, leg filling etc...
- Grouting under very harsh conditions, e.g. offshore applications or below water grouting, at temperatures as low as 2°C or up to 42°C.
- All void filling from 30 mm to 600mm thickness where high strength is important.

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

FEATURES

- C90/105 concrete strength class according EN206 and DIN1045
- Can be installed with a continuous mixing and pumping process. Typical output rates of ≥ 20 m³/hour per mixing unit.
- Quick return to service and removal of temporary supports due to high early strength build-up. ≥ 40 MPa @ 24hrs at 20°C.
- Very good strength gain at low temperatures.
- No segregation or bleeding to ensure consistent physical performance inside the grouted connection, and to prevent pump blockages.
- Excellent fatigue resistance
- No wash-out during below water grouting.
- Pump able over long distances and large heights.
- Specially graded sands and exceptional flow and low friction increases pump output, reduces installation times and costs as well as reducing pump pressures and wear.
- Available as silo material.

CERTIFICATES AND TEST REPORTS

Certified by Det Norske Veritas (DNV)
DNV Type Approval Certificate no: TAK00000RW

PRODUCT INFORMATION

Packaging	SikaGrout*-9800 is supplied by bulk transport and is stored in special jobsite silos. Upon request, the material may be available as well in special 1000, 1250 kg kg big bags.					
Shelf life	6 months from date of production					
Storage conditions	Product must be stored in closed silos or warehouse under dry conditions.					
Density	Approximately 2.25 gr/cm3					

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TECHNICAL INFORMATION

Compressive strength	N/mm ²	20 °C	5 ∘C	2 ∘C		(EN 12390-3)	
	3 days	≥ 75	≥ 45	≥ 40			
	7 days	≥ 85	≥ 70	≥ 65			
	28 days	≥ 95	≥ 80	≥ 75			
	Resuts of 100 mm cubes						
	Exposure classes: (EN 206						
	XO, XC4, XD3, XS2, XS3, XF3, XA2, WA Characteristic compressive strengths:						
	Specimen size 20 °C 5 °C						
	100 mm cu		$X_{k(n)} \ge 90 \text{ N}$	$x_{k(n)} \ge 90 \text{ N/mm}^2$ $X_{k(n)} \ge 80 \text{ N/m}$			
	150 x 300 mm cylinders $X_{k(n)} \ge 80 \text{ N/mm}^2$						
Modulus of elasticity in compression	Testing typ	ne		Result			
		icity modulus	5	≥ 30 GPa			
	(150x300 mm cylinders)						
		lasticity mod		≥ 35 GPa			
	(40x40x160 mm prisms)						
	Poisson rat 0.271	tio:				(ASTM C469)	
Flexural-strength	Age N/mm²				(EN 12390-5)		
_	28 days		≥ 10				
	Results of 700 x 150 x 150 mm bars						
	Characteristic flexural strength:						
	$X_{k(n)} \ge 9 \text{ N/mm}^2$						
	Results of 700 x 150 x 150 mm bars						
Shrinkage	Autogenous shrinkage:						
	≤ 0.4 mm/m						
	Tested according to Schleibinger shrinkage drain method						
	Test started 90 minutes after mixing – air sealed samples						
	Shrinkage class:						
	SKVM 0 Tested according to DAfStb VeBMR Rili						
Bleeding	No bleedin						
•	Sedimentation stability:						
	No sedimentation						
	(in accordance of DAfStb Self compacting concrete, section N.1.2.)						
APPLICATION INFORMATIO	N						
Mixing ratio	Approxima	Approximately 145 lt / 1000 kg powder					
Consumption	1000 kg of powder will yield approximately 500 to 525 litre of mixed grout.						
Layer thickness	30 - 600 mm						
Material temperature	+2 °C min. / +42 °C max.						
Ambient air temperature	+2 °C min. / +42 °C max.						
Substrate temperature	+2 °C min. / +42 °C max.						
Pot Life	≥ 120 minu	ıtes					

≤ 10 hours

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Setting time

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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®-9800

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

- Sands or other products that could affect the products properties must not be added.
- SikaGrout 9800 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.

EQUIPMENT

Mixer type Jet mixer (Continuous

mixing)

(other mixer types need approval from Sika)

Operating limitations:

Minimum diameter of ≥ 2 inch

grout lines

Grout annulus $30 \le t \le 600$ Pumping length through $L \le 200$ m

2" flexible hose

Pumping elevated head H ≤ 20 m

with 2" flexible hose

CLEANING OF EQUIPMENT

Tools and spillages can be cleaned with water while SikaGrout*-9800 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.

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ISO 9001, 14001, 45001 – 565:

- 58a LMF LIC

- 58a Informational Chemicals LIC

- 58a Informational Chemicals LIC

- 58a Cut 9.5.c. © 55:

650 9001, 14001 – 505:

- 58a Continue Chemicals Limited

650 9001, 14001 – 1010:

- 58a LOS MINISTRUMENT Chemicals

- 58a LOS MINISTRUMENT LIC

- 58a Continue Chemicals

650 9001 – 1010:

- 58a MINISTRUMENT LIC

- 58a LOS LIC

- 58a MINISTRUMENT

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.



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