

## PRODUCT DATA SHEET

SikaGrout<sup>®</sup>-9375 IN

High strength grout for onshore wind turbine installations

**DESCRIPTION**

SikaGrout<sup>®</sup>-9375 IN is a shrinkage compensated grout which when mixed with water, produces a homogeneous, flowable and pumpable grout with high early and final strength. Latest best binder packing models and applied cementitious nanotechnology produces a grout with superior technical performance, exceptional rheological properties, and, uniquely, extended open times.

**USES**

SikaGrout<sup>®</sup>-9375 IN has been especially formulated for large scale, pump applications.

- Void filling in onshore wind turbine installations
- Typically used with anchor cage design
- For use as high strength grout in precast concrete towers

Contact the Technical Department regarding any application or dimensions required not mentioned here.

**CHARACTERISTICS / ADVANTAGES**

- High early strength
- Excellent strength gain
- No segregation or bleeding to ensure consistent final physical performance and to prevent pump blockages
- Pump able
- Shrinkage compensated
- Excellent flow properties to reduce installation times and costs as well as reducing pump pressures and wear
- Short mixing times
- High Volume stability
- Dust reduced for ease of handling and safety of workers
- Excellent load transferring properties between concrete elements and between concrete and steel flanges
- Only water to be added
- Fatigue resistant

**APPROVALS / STANDARDS**

Fatigue resistance (LADICIM, Spain) - Test Report No – 22016/01M-02

**PRODUCT INFORMATION**

<b>Chemical base</b>	Special cement, selected aggregates and additives
<b>Packaging</b>	25 kg bag
<b>Appearance / Colour</b>	Grey powder
<b>Shelf life</b>	6 months from date of production
<b>Storage conditions</b>	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions.
<b>Density</b>	Approximately 2.35 + 0.02 gr/cm3 (DIN18555-2)

## TECHNICAL INFORMATION

<b>Compressive strength</b>	<u>Curing Time</u>	<u>(W/P=0.138)</u>	<u>(W/P=0.135)</u>	(ASTM C 109)
	1 day	≥ 45 MPa	≥ 50 MPa	
	7 days	≥ 75 MPa	≥ 75 MPa	
	28 days	≥ 95 MPa	≥ 100 MPa	
	Values measured at 23 ± 2°C in cube size 50 mm			
	<u>Curing Time</u>	<u>(W/P=0.138)</u>	<u>(W/P=0.135)</u>	(IS 4031)
	1 day	≥ 45 MPa	≥ 50 MPa	
	7 days	≥ 75 MPa	≥ 75 MPa	
	28 days	≥ 95 MPa	≥ 100 MPa	
	Values measured at 23 ± 2°C in cube size 70.6 mm			
<b>Modulus of elasticity in compression</b>	≥ 38000 N/mm <sup>2</sup>			(EN 13412)
<b>Flexural strength</b>	<u>Age</u>	<u>N/mm<sup>2</sup></u>		(EN 196-1)
	1 day	≥ 6 MPa		
	28 days	≥ 12 MPa		

## APPLICATION INFORMATION

<b>Fresh mortar density</b>	~2350 kg/m <sup>3</sup>		
<b>Yield</b>	25 kg powder will yield ~ 12 L of mixed grout.		
<b>Layer thickness</b>	20 mm min. / 250 mm max.		
<b>Flowability</b>	Initial Flow > 280 mm	(ASTM C 230)	
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.		
<b>Mixing ratio</b>	3.25 to 3.70 Litres / 25 kg bag (WP Ratio 0.130 ~ 0.148) (Depending on temperature)		
<b>Substrate temperature</b>	+5 °C min. / +35 °C max.		
<b>Pot life</b>	~60 minutes	at 23 °C	
<b>Setting time</b>	< 6 hours	at 23 °C	

## 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.

## FURTHER DOCUMENTS

Sika Method Statement: SikaGrout®-9375 IN

## 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®-9375 IN has been especially formulated for use in specific wind tower applications. As such SikaGrout®-9375 IN should be installed by trained / an experienced contractors.
- SikaGrout®-9375 IN which will be exposed to strong drying conditions, e.g. mortar which is directly exposed to heavy wind and/or direct sunlight, must be protected with moist cloth or plastic foil, or by using appropriate curing agents.
- The temperature of the grout material, mixing water and elements coming in contact with the mixed grout should be in the range of +5°C to +35°C. Contact our Technical Department if grouting below +5°C or above +35°C.
- When grouting in cold conditions, store SikaGrout®-9375 IN & mixing water in a heated area. When grouting under hot conditions, store in a cooled area.

## SUBSTRATE QUALITY / PRE-TREATMENT

### Concrete

- The concrete must be structurally sound, thoroughly clean, free from oil, grease, dust, loose material, surface contamination and materials which will impair the grout flow or reduce adhesion strength.
- Laitance, delaminated, weak, damaged and deteriorated concrete and where necessary sound concrete must be removed by suitable mechanical preparation as directed by the engineer or supervising officer.
- Any pockets or holes for structural fixings must also be cleaned of all debris.

### Shutter Formwork

- Where formwork is to be used, all formwork must be of adequate strength, treated with release agent and sealed to prevent leakage of pre-wetting water and grout.
- Ensure formwork includes outlets for removal of the pre-soaking water or use vacuum extraction equipment to remove water.

### Pre-wetting

- The prepared concrete substrate must be thoroughly saturated with clean water for a recommended 12 hours before application of the grout.
- The surface must not be allowed to dry within this time.
- Before application of the grout, all water must be removed from within formwork, cavities or pockets and the final surface must achieve a dark matt appearance (saturated surface dry) without glistening.

## MIXING

- Pour minimum water ratio in correct proportion into the grout mixer.
- Stir water slowly with a spiral paddle (200–500 rpm). While stirring the water, slowly add powder to water.
- Add more water within the mixing time up to the maximum allowed until the required consistency is achieved.
- Mix continuously for a minimum of 5 minutes. For larger mixes the mixing time must be extended to approximately 6 minutes or as necessary until the grout achieves a lump free smooth consistency.
- Do not add more water than the maximum specified.
- Do not add sand or other products which could affect the products properties.

Mixing time	Approx. 5 to 6 minutes
Mixer type	e.g. pan mixer
Application method	One continuous pour from one side only

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## CURING TREATMENT

- Protect exposed grout surfaces after finishing from premature drying and cracking by curing under water for at least 72 hours.
- In cold weather apply insulated blankets to maintain a constant temperature to prevent surface damage from freezing and frost.

## CLEANING OF TOOLS

Tools and spillages can be cleaned with water while SikaGrout®-9375 IN 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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