

PRODUCT DATA SHEET

SikaGrout®-9360

(formerly MFlow 9360)

Ultra-high strength, cement based grout for onshore wind turbine installations

DESCRIPTION

SikaGrout®-9360 is a shrinkage compensated, cement based grout which when mixed with water, produces a homogeneous, flowable and pumpable grout with higher early and final strength. The product exhibits excellent fatigue resistance and excellent rheological properties.

USES

SikaGrout®-9360 has been especially formulated for:

- Grouting of wind turbine installations, base plate grouting of onshore wind turbines
- Installations where excellent fatigue resistance is required
- Onshore turbines where ultra-high final strengths are required
- Joint grouting of onshore wind turbine concrete tower
- Grouting under very harsh conditions.
- Anchoring anchor bolts of wind turbine towers
- All void filling from 15mm to 200mm where high strength, high modulus, high ductility is important

CHARACTERISTICS / ADVANTAGES

- Compliance with GB/T 50448-2015, Type II
- High ultimate strength - ensures permanence of the installation under static and moderate repetitive loads
- Excellent fatigue resistance.
- Quick return to service due to high early strength build-up.
- Pump able over long distances and large heights.
- Non-shrinkage grouting ensures tight contact with all grouted surfaces.
- No segregation or bleeding to ensure consistent final physical performance and to prevent pump blockages.
- Can be pumped or poured into complex areas or areas inaccessible to conventional grouting methods.
- Low chloride ion content ensures long-term safety of the structure.
- Low chromate.

PRODUCT INFORMATION

Packaging	SikaGrout®-9360 is supplied in 25 kg bags.
Shelf Life	6 months from date of production
Storage Conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions.

TECHNICAL INFORMATION

Compressive Strength	Age	N/mm ²
	1 day	≥ 50
	3 days	≥ 80
	28 days	≥ 120
Expansion	0 - 3 hours	0.1 - 3.5%
	3 - 24 hours	0.02 - 0.50%

APPLICATION INFORMATION

Mixing Ratio	2.62 - 2.88 lt / 25 kg powder	
Consumption	Approximately 2.1-2.15 kg powder for 1 litre of mixed mortar	
Product Temperature	+10 °C min. / +30 °C max.	
Ambient Air Temperature	+10 °C min. / +30 °C max.	
Substrate Temperature	+10 °C min. / +30 °C max.	
Flowability	Initial	≥ 340 mm
	30 mins	≥ 310 mm

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®-9360

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

NOTES ON INSTALLATION

- Unless approved by Sika, sands or other products that could affect the products properties must not be added.
- Don't use blocking grout material!
- Don't use grouting material that has been damped or damaged in the packaging bag!
- Don't add too much water!
- Don't mix a pack of grouting material in stages!
- Always wear dust masks, eye protection and protective gloves during construction.
- SikaGrout®-9360 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 with moist cloth or plastic foil.
- The temperature of the grout material, mixing water

and elements coming in contact with the mixed grout should be in the range of +2°C to +30°C.

- When grouting in environments below +2°C or above +30°C contact the Technical Department of your local Sika office.

SUBSTRATE PREPARATION

The surfaces should be properly prepared and should be firm, clean and free from loose particles (such as dust, oil, grease, bleeding cement). Prepare the concrete surface to rough profile. Thoroughly saturate the substance with water at least 4 hours prior to pouring the grout. All free water ponding should be blown out of the void just before pouring the grout.

MIXING

Mechanical mixing is necessary. For a large batch, use an approved grout mixer and for a small batch (up to a maximum of two bags at a time), use a heavy-duty slow speed (approximately 600 rpm) drill fitted with a grout stirrer. Place all the water into the mixer. Slowly pour into SikaGrout®-9360. Mixing into a uniform mortar (3 to 4 minutes), let it set for 1 minute, mixing at least 1 minute until without aggregation. Continuous mixing and perfusion without secondary mixing.

APPLICATION

Mix and place the grout as close as possible to the area to be grouted. Have sufficient manpower, materials and tools to make mixing and placing. Place the mixed grout into the pouring end of the formwork immediately. The placing should be without interruption until completion. Recommended grout thickness is from a minimum of 15 - 200mm maximum. For deeper applications please consult your nearest Sika office.

CURING TREATMENT

Cure all exposed grout surfaces as soon as the grout reaches touchhard with a curing compound, or cure with polythene sheeting, wet Hessian, water, wet cloth for minimum 7 days.

CLEANING OF TOOLS

Clean the tools and equipment with water, before the grout hardens. 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

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