

PRODUCT DATA SHEET

SikaGrout®-3750

HIGH PERFORMANCE CEMENTITIOUS OFFSHORE WIND GROUT

DESCRIPTION

SikaGrout®-3750 is a 1-part, cementitious, high performance, fatigue resistant, free flowing, grout which is shrinkage compensated and achieves high early and final strengths. Specifically designed for offshore corrosion protection of foundations. Layer thickness: 40 – 600 mm

USES

SikaGrout®-3750 may only be used by experienced professionals.

- High performance grouting for corrosion protection of offshore foundations

CHARACTERISTICS / ADVANTAGES

- Very fast early strength development
- High final strength
- Fluid consistency
- Long pot life for pumping
- Very low shrinkage
- Shrinkage compensated

PRODUCT INFORMATION

Composition	Special cement, selected aggregates and additives
Packaging	1000 kg bags or bulk Refer to current price list for packaging variations
Appearance / Colour	Grey powder
Shelf life	6 months from date of production
Storage conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.
Maximum Grain Size	D _{max} : 1 mm

TECHNICAL INFORMATION

Compressive Strength	Time	+5 °C	+12 °C	+20 °C	(EN 12390-3)
	12 hours	~45 MPa	~54 MPa	~58 MPa	
	24 hours	~58 MPa	~63 MPa	~63 MPa	
	7 days	~63 MPa	~67 MPa	~67 MPa	
	28 days	~70 MPa	~70 MPa	~75 MPa	
Tested in cylinders 150 × 300 mm Equivalent compressive strength class C70/85 according to EN 206-1					
Modulus of Elasticity in Compression	~32 GPa at +20 °C after 28 days				(EN 13412)
Tensile Strength in Flexure	~6 MPa after 28 days				(EN 12390-5)
Splitting Tensile Strength	1 day	28 days		(EN 12390-6)	
	~4 MPa	~4,4 MPa			
Values measured at +12,5 °C					
Shrinkage	Autogenous shrinkage: ~+0,23 mm/m after 28 days at +20 °C				(ASTM C1698-09)

APPLICATION INFORMATION

Mixing Ratio	14,2 % – 14,8 % 142 kg–148 kg of water per 1000 kg of powder at +10 °C	
Fresh Mortar Density	~2.2 kg/l	
Yield	2200 kg of dry powder yields ~1 m ³ of fresh grout 1000 kg of dry powder yields ~520 litres of fresh grout	
Layer Thickness	min. 40 mm /max. 600 mm	
Flowability	260 mm after 2 hours at +20 °C	(EN 13395-1)
Ambient Air Temperature	+5 °C min. / +20 °C max. Includes seawater temperature range	
Pot Life	~2 hours at +20 °C	
Initial Set Time	~180 minutes at +20 °C	(EN 13294-1)
Setting Time	~210 minutes at +20 °C	(EN 13294-1)

APPLICATION INSTRUCTIONS

MIXING

SikaGrout®-3750 must be mixed using the suitable grout mixing equipment combined with agitator for

continuous large volume mixing. Volume capacity of equipment must be applicable to the volume of material being mixed for a continuous operation. Equipment trials must be considered to ensure product can be mixed satisfactory.

Pour the minimum water ratio in the correct propor-

tion into the grout mixer. While stirring the water, slowly add the powder to the water. Add more water within the mixing time up to the maximum allowed until the desired consistency is achieved. Mix continuously for a minimum of 3 minutes until the grout achieves a lump free smooth consistency. Do not add more water than the maximum specified.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Placing: Grout pump application

Equipment trials must be considered to ensure product can be pumped satisfactory.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

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.

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 the exact product data and uses.

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.

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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