

PRODUCT DATA SHEET

SikaGrout[®]-300 Cable MS

High performance, shrinkage-compensated, anchoring grout

DESCRIPTION

SikaGrout[®]-300 Cable MS is a neat, high performance, shrinkage-compensated, anchoring grout. It is an unsanded, Portland cement-based, expanding, shrinkage-compensated, anchoring grout containing silica fume and other carefully selected components.

SikaGrout[®]-300 Cable MS resists water washout, making it ideal for anchoring cables, tendons or bolts in rock or soil media.

USES

- For most grouted anchor requirements including, cable bolting, earth tie-backs for excavation or soil stabilization, grouting anchors in tunnel support systems, re-bar grouting and grouting soil or rock tendons for anchoring piles or foundation structures
- Infill of pipe piles
- Structural grout medium for injection-bored micropiles

- Grouting conventionally bored micropiles
- Post-grouting of micropile installations
- Construction of grout columns around shafts of standard Helical Pier Foundation System Piles

CHARACTERISTICS / ADVANTAGES

- Superior early strength gain, allowing early tensioning of anchors
- Excellent cohesive properties
- Resistant to water wash-out and dilution by water in wet ground conditions
- Excellent pumpability
- Thixotropic properties reduce material loss in fractured ground
- Reduced bleeding
- Improved resistance to sulphate attack
- Very low permeability

PRODUCT INFORMATION

Composition	Portland cement, special additives.				
Packaging	25 Kg bags				
Shelf life	12 months from date of production				
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.				
Appearance and colour	Grey powder				
Density	~2.0 - 2.11 kg/l				(ASTM C138)
Compressive strength	Result	Curing	w/p ratio	Temp.	(EN 196-1)
	~65 N/mm ²	28 days	0.24	+25°C	(ASTM C109)
	~55 N/mm ²	28 days	0.335	+25°C	
Expansion	3-6% (Volume Unconfined)				(ASTM C940)

APPLICATION INFORMATION

Mixing ratio	6.0 - 8.375 litres of water per 25 kg bag Water to powder ratio range (w/p = 0.24 - 0.335)
Yield	25 kg bag of SikaGrout®-300 Cable MS will yield approximately 14.7 litres of fresh grout when mixed with 6.0 litres of water and 16.7 litres when mixed with 8.375 litres of water.

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.

IMPORTANT CONSIDERATIONS

- Not recommended for areas subjected to extremely high vibrations.
- Adhere to recommended water additions.
- Exceeding the recommended w/p ratio will result in reduced compressive strengths and inferior physical properties.

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

MIXING

Mix SikaGrout®-300 Cable MS to the consistency required for placement.
Lower w/p ratio of 6.0 litres should be used for pumpable consistencies while a higher w/p ratio of 8.35 litres should be used for flowable consistency.

APPLICATION

SikaGrout®-300 Cable MS's thixotropic properties make the grout appear thick and cohesive when it is in fact very pumpable. Introduce potable water into a high shear mixer and then add SikaGrout®-300 Cable MS while operating at medium speed. Increase mixer speed and continue mixing at high speed for 3 to 5 minutes. Mortar style mixers are not recommended for this purpose. Decrease mixer speed to low and continue mixing while placing the grout. The time between mixing and pumping of the batch should not exceed 15 minutes.

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.

SIKA NORTHERN GULF

Bahrain / Kuwait
Tel: +973 177 38188
info@bh.sika.com
gcc.sika.com

SIKA SOUTHERN GULF

UAE / Oman / SIC
Tel: +971 4 439 8200
info@ae.sika.com
gcc.sika.com

Sika Saudi Arabia

Riyadh / Jeddah / Dammam
Tel: +966 11 217 6532
info@sa.sika.com
gcc.sika.com



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Sika S.A.C. LLC
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Sika Gulf S.S.C. O.
SIO 9001, 14001 – SGS
Sika Saudi Arabia Limited

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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