

PRODUCT DATA SHEET

SikaGrout®

ONE-COMPONENT, HIGH PERFORMANCE, CEMENTITIOUS GROUT MIX

DESCRIPTION

SikaGrout® is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. With a special blend of shrinkage-reducing and plasticizing/water-reducing agents, SikaGrout® compensates for shrinkage in both the plastic and hardened states.

USES

- Use for structural grouting of column base plates, machine base plates, anchor rods, bearing plates, etc.
- Use on grade, above and below grade, indoors and out
- Multiple fluidity allows ease of placement: ram in place as a dry pack, trowel-apply as a medium flow, pour or pump as high flow

CHARACTERISTICS / ADVANTAGES

- Easy to use, just add water
- Non-metallic, will not stain or rust
- Low heat build-up
- Excellent for pumping: Does not segregate, even at high flow. No build-up on equipment hopper
- Superior freeze/thaw resistance
- Resistant to oil and water
- Meets KS F 4044
- Shows positive expansion when tested in accordance with ASTM C-827

PRODUCT INFORMATION

Packaging	25 kg/bag
Appearance / Colour	Concrete gray
Shelf life	6 months in original, unopened bags
Storage conditions	Store dry at 5 to 35 °C. Condition material to 18 to 24°C before using

TECHNICAL INFORMATION

Compressive Strength	1 Day	3 Days	7 Days	28 Days	(KS F 4044) 23°C
	25 N/mm ²	40 N/mm ²	50 N/mm ²	60 N/mm ²	
Expansion	0 ~ 0.2%				(KS F 4044, 24 hr)

APPLICATION INFORMATION

Mixing Ratio	Mix water 16~18% on powder		
Fresh Mortar Density	2.1 ~ 2.3 kg/l (mix)		
Flowability	300 ± 20 mm		(KS F 4044)
Ambient Air Temperature	5 ~ 40 °C		
Substrate Temperature	5 ~ 40 °C		
Pot Life	~ 30 min. at 20°C		
Setting Time	initial : ~ 5 hr 30 min	final : ~ 7 hr	(KS F 4044)

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bolts to be grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to a CSP 4 or higher to promote mechanical adhesion. Prior to pouring, surface should be brought to a saturated surface-dry condition. Steel should be cleaned and prepared thoroughly by blastcleaning to a white metal finish. Follow standard industry and Sika guidelines for use as an anchoring epoxy.

For pourable grout, construct forms to retain grout without leakage. Forms should be lined or coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate head of grout.

MIXING

Mix manually or mechanically. Mechanically mix with low-speed drill (400–600 rpm) and Sika mixing paddle or in appropriately sized mortar mixer. Make sure all forming, mixing, placing, and clean-up materials are on hand. Add appropriate quantity of clean water to achieve desired flow. Add bag of powder to mixing vessel. Mix to a uniform consistency, minimum of 2 minutes. Ambient and material temperature should be as close as possible to 20°C. If higher, use cold water; if colder, use warm water.

Product Extension: For deeper applications, SikaGrout® may be extended with 10 mm pea gravel. The aggregate must be nonreactive, clean, wellgraded, saturated surface dry, have low absorption and high density. Add the pea gravel after the water and SikaGrout®.

APPLICATION

Within 15 minutes after mixing, place grout into forms in normal manner to avoid air entrapment. Vibrate, pump, or ram grout as necessary to achieve flow or compaction. SikaGrout® must be confined in either the horizontal or vertical direction leaving minimum exposed surface. SikaGrout® is an excellent grout for pumping, even at high flow. For pump recommendations, contact Technical Service. Wet cure for a minimum of 3 days or apply a curing compound which complies with ASTM C-309 on exposed surfaces.

Tooling and Finishing

After grout has achieved final set, remove forms, trim or shape exposed grout shoulders to designed profile

IMPORTANT CONSIDERATIONS

- Minimum ambient and substrate temperature 5 °C and rising at time of application
- Minimum application thickness: 10 mm
- Maximum application thickness (neat): 50 mm. However, thicker applications can be achieved
- Contact Sika's Technical Services Department for further information
- Do not use as a patching or overlay mortar or in unconfined areas
- Material must be placed within 15 minutes of mixing
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Do not use on potential areas such as aluminum bars, rails, posts etc.

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 recommenda-

tions. 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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