

# PRODUCT DATA SHEET

## SikaGrout®

### High Performance Cementitious Grout

#### PRODUCT 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. A structural grout, SikaGrout® provides the advantage of multiple fluidity with a single component.

#### USES

- General purpose grouting
- Filling cavities, voids, gaps, & recesses
- Structural grouting of:
  - Column & machine base plates / Anchor rods / Bearing plates / etc.
- 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
- Flowable & high strength
- Multiple fluidity with one material
- Shrinkage compensated - no cracking
- 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
- Can be used on grade, above & below grade, indoors & outdoors

#### APPROVALS / STANDARDS

- Meets ASTM C-1107
- Shows positive expansion when tested in accordance with ASTM C-827
- SikaGrout® is USDA-approved

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Cement, selected fillers and aggregate, special additives
<b>Packaging</b>	50 lb. (22.7 kg) multi-wall bags; 36 bags/pallet
<b>Appearance / Color</b>	Concrete gray
<b>Shelf Life</b>	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging
<b>Storage Conditions</b>	Store dry at 40-90°F (4-35°C). Protect from moisture. If damp, discard material

## TECHNICAL INFORMATION

<b>Compressive Strength</b>		<b>Plastic</b>	<b>Flowable</b>	<b>Fluid</b>	(ASTM C-942) 73°F (23°C) 50% R.H.
	1 day	4,500 (31 MPa)	3,500 (24.1 MPa)	2,700 (18.6 MPa)	
	7 day	6,100 (42 MPa)	5,700 (39.3 MPa)	5,500 (37.9 MPa)	
	28 day	7,500 (51.7 MPa)	6,200 (42.7 MPa)	5,800 (40 MPa)	
<b>Flexural Strength</b>		<b>Plastic</b>	<b>Flowable</b>	<b>Fluid</b>	(ASTM C-293) Tested at: 73°F (23°C) 50 % R.H.
	28 day	1,400 (9.6 MPa)	1,200 (8.2 MPa)	1,000 (6.8 MPa)	
<b>Expansion</b>		<b>Plastic</b>	<b>Flowable</b>	<b>Fluid</b>	(ASTM-1090) Tested at: 73°F (23°C) 50 % R.H.
	28 day	+0.021 %	+0.056 %	+0.027 %	
<b>Tensile Adhesion Strength</b>		<b>Plastic</b>	<b>Flowable</b>	<b>Fluid</b>	(ASTM C-882 mod) 73°F (23°C) 50% R.H.
	28 days	2,000 psi (13.7 MPa)	1,900 psi (13.1 MPa)	1,900 psi (13.1 MPa)	
<b>Splitting tensile strength</b>		<b>Plastic</b>	<b>Flowable</b>	<b>Fluid</b>	(ASTM C-496) Tested at: 73°F (23°C) 50 % R.H.
	28 day	600 (4.1 MPa)	575 (3.9 MPa)	500 (3.4 MPa)	

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	<b>Plastic</b> 6 pints	<b>Flowable</b> 6.5 pints	<b>Fluid</b> 8.5 pints
<b>Coverage</b>	Approximately 0.44 cu. ft./bag at high flow (fluid consistency) (Coverage figured do nto include allowance for surface profile and porosity or material wastage)		
<b>Layer Thickness</b>	<b>Minimum</b>		<b>Maximum</b>
	½ inch (12.7 mm)		4 inch (101.6 mm)
	Thicker applications can be achieved. Please contact Sika® Technical Services Department for further information.		
<b>Product Temperature</b>	65-75 °F (18-24 °C)		
<b>Ambient Air Temperature</b>	> 45 °F (7 °C)		
<b>Substrate Temperature</b>	> 45 °F (7 °C)		
<b>Mixing</b>	3 minutes with low speed (< 500 rpm) hand drill mixer until lump free		
<b>Pot Life</b>	~15 minutes		
	<b>NOTE:</b> The temperate will affect the pot life, application temperatures: <ul style="list-style-type: none"> <li>▪ Above 73 °F (23 °C) will reduce the pot life and flow</li> <li>▪ Below 73 °F (23 °C) will extend the pot life and flow</li> </ul>		
<b>Flowability</b>	<b>Plastic<sup>1</sup></b>	<b>Flowable<sup>1</sup></b>	<b>Fluid<sup>2</sup></b>
	100-124%	124-145%	20-40 sec
			(ASTM C-1437) <sup>1</sup> (ASTM C-939) <sup>2</sup>

## Set Time

	Plastic	Flowable	Fluid	(ASTM C-266) 73°F (23°C) 50% R.H.
Initial	3.5-4.5 hr	4.0-5.0 hr	4.5-6.5 hr	
Final	4.5-5.5 hr	5.5-6.5 hr	6.0-8.0 hr	

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LIMITATIONS

- Minimum ambient and substrate temperature should be 45°F (7°C) and rising at time of application
- Minimum application thickness: 1/2 in. (12.7 mm)
- Maximum application thickness (neat): 4 in. (50 mm).
- Do not use as a patch repair
- Do not use as an overlay 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.
- Avoid application in direct sun and/or strong winds
- Protect freshly applied material from freezing and frost
- Apply only to sound, prepared surfaces
- Do not add additional water after application as this may cause cracking
- Keep exposed surfaces to a minimum

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

- 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 blast cleaning to a white metal finish.
- Follow standard industry and Sika guidelines for use as an anchoring epoxy.

### FORMING

- 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.
- Where grout-tight form is difficult to achieve, use SikaGrout® in dry pack consistency.

### MIXING

- Mixing can be done manually or mechanically.
- Add the appropriate amount of clean water for desired flow to a suitable mixing container.
- While mixing slowly, add the powder to the water.
- If mixing mechanically, mix thoroughly for 3 minutes with a low-speed (< 500 rpm) drill hand drill mixer to avoid entraining too much air.
- Mix to a uniform consistency for 3 minutes.
- Make sure all forming, mixing, placing, and clean-up materials are on hand.
- Ambient and material temperature should be as close as possible to 70°F (21°C). If higher, use cold water; if colder, use warm water.

### Extension With Aggregates

- For deeper applications, (plastic and flowable consistencies only) 25 lbs. (11.3 L) of 3/8 in. (9.5 mm) pea gravel can be added to the mix of water and SikaGrout®.
- The aggregate must be nonreactive (reference ASTM C-1260, C-227, and C-289), clean, well graded, saturated surface dry, have low absorption and high density, and comply with ASTM C-33 size number 8 per Table 2.
- Add the pea gravel after adding SikaGrout® to the water.

#### Product Data Sheet

SikaGrout®

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

## CURING TREATMENT

Wet cure for a minimum of 3 days or apply a curing compound which complies with ASTM C-309 on exposed surfaces.

## CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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