BUILDING TRUST

PRODUCT DATA SHEET

SikaGrout®

One-component, High performance, cementitious grout mix

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

- 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
- Multiple fluidity with one material
- 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 ASTM C-1107
- Shows positive expansion when tested in accordance with ASTM C-827
- SikaGrout® is USDA-approved

PRODUCT INFORMATION

Packaging	50 lb. (22.7 kg) multi-wall bags; 36 bags/pallet
Appearance / Color	Concrete gray
Shelf Life	12 months in original, unopened bags
Storage Conditions	Store dry at 40 to 95 °F (4 to 35 °C). Condition material to 65 to 75 °F (18 to 24°C) before using

TECHNICAL INFORMATION

Compressive Strength

	Plastic[1]	Flowable[1]	Fluid[2]
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)

(CRD C-621)
Tested at:
73 °F (23 °C)
50 % R.H.

[1]CRD C-227: 100–124 % (plastic), 124–145 % (flowable)
[2]CRD C-611: 10–30 sec efflux time.

Flexural Strength

	Plastic[1]	Flowable[1]	Fluid[2]
28 day	1,400 (9.6 MPa)	1,200 (8.2 MPa)	1,000 (6.8 MPa)

(ASTM C-293)
Tested at:
73 °F (23 °C)
50 % R.H.

[1]CRD C-227: 100–124 % (plastic), 124–145 % (flowable)
[2]CRD C-611: 10–30 sec efflux time.

Splitting Tensile Strength

	Plastic[1]	Flowable[1]	Fluid[2]
28 day	600 (4.1 MPa)	575 (3.9 MPa)	500 (3.4 MPa)

(ASTM C-496)
Tested at:
73 °F (23 °C)
50 % R.H.

[1]CRD C-227: 100–124 % (plastic), 124–145 % (flowable)
[2]CRD C-611: 10–30 sec efflux time.

Shear Strength

	Plastic[1]	Flowable[1]	Fluid[2]
28 day	2,000 (13.7 MPa)	1,900 (13.1 MPa)	1,900 (13.1 MPa)

(ASTM C-882 mod.)
Hardened concrete to plastic grout
Tested at:
73 °F (23 °C)
50 % R.H.

[1]CRD C-227: 100–124 % (plastic), 124–145 % (flowable)
[2]CRD C-611: 10–30 sec efflux time.

Expansion

	Plastic[1]	Flowable[1]	Fluid[2]
28 day	+0.021 %	+0.056 %	+0.027 %

(CRD C-621)
Tested at:
73 °F (23 °C)
50 % R.H.

[1]CRD C-227: 100–124 % (plastic), 124–145 % (flowable)
[2]CRD C-611: 10–30 sec efflux time.

APPLICATION INFORMATION

Mixing Ratio

Plastic[1]	Flowable[1]	Fluid[2]
6 pt.+	6.5 pt.	8.5 pt.

(ASTM C-109: Plastic/Flowable)
(ASTM C-939: Fluid)

[1]CRD C-227: 100–124 % (plastic), 124–145 % (flowable)
[2]CRD C-611: 10–30 sec efflux time.

Coverage

Approximately 0.44 cu. ft./bag at high flow

Thinner

	Plastic[1]	Flowable[1]	Fluid[2]
Initial	3.5–4.5 h	4.0–5.0 h	4.5–6.5 h
Final	4.5–5.5 h	5.5–6.5 h	6.0–8.0 h

(ASTM C-266)
Tested at:
73 °F (23 °C)
50 % R.H.

[1]CRD C-227: 100–124 % (plastic), 124–145 % (flowable)
[2]CRD C-611: 10–30 sec efflux time.

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

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 70 °F (21 °C). If higher, use cold water; if colder, use warm water.

Product Extension: For deeper applications, SikaGrout® (plastic and flowable consistencies only) may be extended with 25 lb. (11.3 L) of 3/8 in. (9.5 mm) pea gravel. The aggregate must be nonreactive, clean, wellgraded, saturated surface dry, have low absorption and high density, and comply with ASTM C33 size number 8 per Table 2. 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.

LIMITATIONS

- Minimum ambient and substrate temperature 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). However, thicker applications can be achieved
- Contact Sika's Technical Services Department (800-933-7452) 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

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

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

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 or by calling SIKA's Technical Service Department at 1-800-933-7452. 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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