

## PRODUCT DATA SHEET

# SikaGrout®-350

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## HIGH PERFORMANCE, DEEP POUR, NON-SHRINK, CEMENTITIOUS GROUT

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### PRODUCT DESCRIPTION

SikaGrout®-350 is a high performance, deep pour, non-shrink, non-metallic, cementitious, shrinkage compensated, free flowing, pumpable grout. SikaGrout®-350 is a blend of Portland cement, carefully graded aggregates and Sika Admixtures, enabling it to achieve high strengths. SikaGrout®-350 is suitable for grouting of large sections and deep pours of up to 12 inches (300 mm).

### USES

- Machine base plates/ heavy equipment
- Bedding joints in pre-cast concrete sections
- Filling voids, cavities, gaps and recesses
- Sealing around penetrations
- Bridge bearing pads
- Mass grouting
- Anchor bolts

### CHARACTERISTICS / ADVANTAGES

- Excellent initial flow and flow retention
- High ultimate strength and low permeability ensure durability of the hardened grout
- Suitable for pumping or pouring over a large range of application consistencies and temperatures
- Shrinkage compensating properties
- Good flow characteristics
- Adjustable consistency
- Good impact and thermal resistance
- Non-corrosive to steel or iron

### PRODUCT INFORMATION

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<b>Packaging</b>	50 lb (22.7 kg) bag
<b>Shelf Life</b>	12 months from date of production if stored properly in original, sealed packaging
<b>Storage Conditions</b>	Store dry at 40–95 °F (4–35 °C) Protect from moisture. If damp, discard material

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## TECHNICAL INFORMATION

<b>Compressive Strength</b>	<u>1 day</u>	<u>4,000 psi ( 27.6 MPa)</u>	(ASTM C-109)
	<u>7 day</u>	<u>8,250 psi ( 56.9 MPa)</u>	(Confined Cubes)
	<u>28 day</u>	<u>10,000 psi (69.0 MPa)</u>	73 °F (23 °C)50 % R.H.
<b>Flexural Strength</b>	<u>7 day</u>	<u>1,100 psi (7.6 MPa)</u>	(ASTM C- 293)
	<u>28 day</u>	<u>1,300 psi (9.0 MPa)</u>	73 °F (23 °C)50 % R.H.
<b>Splitting tensile strength</b>	<u>7 day</u>	<u>500 psi ( 3.4 MPa)</u>	(ASTM C-496)
	<u>28 day</u>	<u>750 psi (5.2 MPa)</u>	73 °F (23 °C)50 % R.H.
<b>Shear Strength</b>	<u>28 day</u>	<u>2,500 psi ( 17.2 MPa)</u>	(ASTM C-882) 73 °F (23 °C)50 % R.H.
<b>Freeze-Thaw Stability</b>	<u>300 cycles</u>	<u>&gt;99%</u>	(ASTM C-666) 73 °F (23 °C)50 % R.H.

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	6.5 pts - 7.0 pts (3.1 L - 3.3 L) *Only fluid consistency		
<b>Coverage</b>	0.4 ft3 (0.01 m3) per bag at fluid consistency(Coverage figures do not include allowance for surface profile and porosity or material waste)		
<b>Layer Thickness</b>	<b>Min.</b>	<b>Max.</b>	
	<u>1/2" (12.7 mm)</u>	<u>12" (300 mm)</u>	
<b>Product Temperature</b>	65–75 °F (18–24 °C)		
<b>Ambient Air Temperature</b>	40° - 95° F (4° - 35° C)		
<b>Substrate Temperature</b>	> 40 °F (4 °C)		
<b>Pot Life</b>	60 min. at 73 °F (23 °C) 50% R.H		

## 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

- Do not use as a patching or overlay mortar or in unconfined areas
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure
- Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur 32 Hi-Mod

## ENVIRONMENTAL, HEALTH AND SAFETY

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

- Surface must be clean and sound. Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired
- Preparation work should be done by high pressure water blast, scabber or other appropriate mechanical means to promote mechanical adhesion
- Recommended concrete surface profile CSP 4 or greater
- To ensure optimum repair results, the effectiveness of decontamination and preparation should be assessed by a pull-off test
- Substrate should be Saturated Surface Dry (SSD) with

clean water prior to application. No standing water should remain during application

#### FORMING

- Where formwork is to be used, all formwork must be of adequate strength, treated with release agent and sealed to prevent leakage of pre-wetting water and grout.
- Ensure formwork includes outlets for removal of the pre-soaking water.
- Forms should be sufficiently high to accommodate head of grout.

#### MIXING

- Make sure all forming, mixing, placing, and clean-up materials are on hand.
- Add the appropriate amount of water of clean potable water (approx. 70 °F) into a suitably sized and clean mixing container, using a calibrated measuring jug, or similar, to ensure strict control of the water content (do not over-water).
- Add 1 bag while continuing to mix with a low-speed drill (400-600 rpm) and Sika mixing paddle or a jiffy paddle or in an appropriate mortar mixer.
- Once all the powder has been added, mix for approximately 3 minutes, until a lump-free and uniform consistency is achieved. Do not over mix.
- For warmer temperatures use cold water and for colder temperatures use warm water
- Refer to ACI 306 Guidelines when there is a need to place this grout in cold & hot temperatures.

#### 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
- Mixed grout in mass will result in faster than expected setting times
- SikaGrout®-350 must be confined leaving minimum exposed surface
- After grout has achieved final set, remove forms, and shape exposed grout shoulders to designed profile

#### CURING TREATMENT

Wet cure for a minimum of 3 days or apply Sika® Antisol-250 W which complies with ASTM C-309 on exposed surfaces.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## 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](http://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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