

PRODUCT DATA SHEET

SikaGrout®-350

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

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 selected and graded aggregates and Sika Admixtures, enabling it to achieve high strengths in short times, making SikaGrout®-350 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 penetration
- 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
- Does not segregate or bleed
- Good impact and thermal resistance
- Non corrosive to steel or iron

PRODUCT INFORMATION

Packaging	50 lb (22.7 kg) bag
Shelf life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging
Storage conditions	Store dry at 40–95 °F (4–35 °C) Protect from moisture. If damp, discard material

TECHNICAL INFORMATION

Compressive strength	1 day	4,000 psi (27.6 MPa)	(ASTM C-39) 73 °F (23 °C)50 % R.H.
	7 day	8,250 psi (56.9 MPa)	
	28 day	10,000 psi (69.0 MPa)	
Tensile strength in flexure	7 day	1,100 psi (7.6 MPa)	(ASTM C- 293) 73 °F (23 °C)50 % R.H.
	28 day	1,300 psi (9.0 MPa)	
Splitting tensile strength	7 day	500 psi (3.4 MPa)	(ASTM C-496) 73 °F (23 °C)50 % R.H.
	28 day	750 psi (5.2 MPa)	
Shear strength	28 day	2,500 psi (17.2 MPa)	(ASTM C-882) 73 °F (23 °C)50 % R.H.
Freeze thaw resistance	300 cycles	>99%	(ASTM C-666) 73 °F (23 °C)50 % R.H.

APPLICATION INFORMATION

Mixing ratio	7.0 pts (3.3 L)	
Yield	0.44 ft ³ (0.01 m ³) per bag at fluid consistency(Coverage figures do not include allowance for surface profile and porosity or material waste)	
Layer thickness	Min.	Max.
	1/2" (12.7 mm)	12" (300 mm)
Product temperature	65–75 °F (18–24 °C)	
Ambient air temperature	> 45 °F (7 °C)	
Substrate temperature	> 45 °F (7 °C)	
Pot Life	> 90 min. at 73 °F (23 °C)50 % R.H	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Surface must be clean and sound. Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired
- Anchor bolts to be grouted must be de-greased with suitable solvent
- Preparation work should be done by high pressure water blast, scabblers or other appropriate mechanical means to promote mechanical adhesion
- 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

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BUILDING TRUST



- 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
- Plan jobs accordingly so that the grout can be placed right after mixing
- SikaGrout®-350 must be confined leaving minimum exposed surface
- After grout has achieved final set, remove forms, trimor shape exposed grout shoulders to designed profile

CURING TREATMENT

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

IMPORTANT CONSIDERATIONS

- 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

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

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.