



PRODUCT DATA SHEET

SikaGrout®-300 PT

High-performance, zero-bleed, sand-free, cementitious grout



PRODUCT DESCRIPTION

SikaGrout®-300 PT is a fluid, non-shrink, cementitious grout with a unique, two-stage shrinkage compensating mechanism.

It is non-metallic and contains no chlorides. With a special blend of shrinkage-reducing and plasticizing/water-reducing agents, SikaGrout®-300 PT compensates for shrinkage in both the plastic and the hardened states.

WHERE TO USE

SikaGrout®-300 PT may only be used by experienced professionals.

- Injection, anchoring and grouting tight clearances where sanded grouts would not flow or fill voids

CHARACTERISTICS / ADVANTAGES

- Sand-free allows filling and repairing of voids
- Does not contain aluminum powder nor any components which generate hydrogen gas, carbon dioxide or oxygen
- Silica fume enhanced for low permeability
- For additional corrosion protection, 75 mL (2.5 fl. oz) of Sika® FerroGard®-901 may be substituted for 75 mL (2.5 fl. oz) of mixing water for each 22.7 kg (50 lb) bag of SikaGrout®-300 PT
- Easy to use; just add water
- Non-metallic; will not stain or rust. Non-corrosive; does not contain chlorides
- Zero bleed, even at high flow
- Excellent for pumping: Does not segregate, even at high flow. No build-up on equipment hopper
- Superior freeze/thaw resistance

APPROVALS / CERTIFICATES

- Meets CRD C 621 and ASTM C1107 (Grade C)
- Ministère des Transports et de la Mobilité Durable du Québec (Quebec DOT) acceptance

PRODUCT INFORMATION

Packaging	22.7 kg (50 lb) multi-wall bag; 56 bags/pallet
Appearance / Colour	Concrete grey
Shelf Life	9 months in original, unopened bags.
Storage Conditions	Store dry between 4 °C and 35 °C (40 °F and 95 °F) ensuring that product is not exposed to rain, condensation or high humidity. For best results, condition product between 18 °C and 24 °C (65 °F and 75 °F) before using.

Density	Wet density: approx. 2000 kg/m ³ (125 lb/ft ³)	(ASTM C138)
Granulometry	Contains none (sand-free)	
Total Chloride Ion Content	Less than 0.04 % by weight of cementitious material	(ASTM C1152)
CSC MasterFormat®	03 62 13 NON-METALLIC, NON-SHRINK GROUTING	

TECHNICAL INFORMATION

Compressive Strength	Compressive strength		
	1 day	25 MPa (3600 psi)	(ASTM C942)*
	3 days	34 MPa (5000 psi)	
	7 days	48 MPa (7000 psi)	
	28 days	77 MPa (11 000 psi)	

Compressive strength (AST C109) - Tested with Sikacem® Accelerator *

Temperature	Dosage	24 hours	2 days	4 days	28 days
-5 °C	2 bottles (300 mL)	-	-	13 MPa (1885 psi)	42 MPa (6091 psi)
0 °C	1 bottle (150 mL)	-	10 MPa (1450 psi)	35 MPa (5076 psi)	44 MPa (6381 psi)
0 °C	2 bottles (300 mL)	-	16 MPa (2320 psi)	44 MPa (6381 psi)	51 MPa (7396 psi)
5 °C	1 bottle (150 mL)	-	18 MPa (2610 psi)	32 MPa (4641 psi)	46 MPa (6671 psi)
5 °C	2 bottles (300 mL)	-	24 MPa (3480 psi)	37 MPa (5366 psi)	54 MPa (7832 psi)
10 °C	1 bottle (150 mL)	12 MPa (1740 psi)	25 MPa (3625 psi)	38 MPa (5511 psi)	46 MPa (6671 psi)
10 °C	2 bottles (300 mL)	18 MPa (2610 psi)	33 MPa (4786 psi)	42 MPa (6091 psi)	54 MPa (7832 psi)

* Fluid consistency compressive strengths are given as minimum guidelines. Pourable and dry pack consistencies will easily exceed these values. All moulds, mixing tools and powder components were pre-conditioned to the test temperatures. Prepared test specimens were cast and then cured at the indicated test temperatures until the time of testing. Lid should be clamped on mold at all time. Maximum liquid/solids ratio (water + Sikacem® Accelerator/SikaGrout®-300 PT) = 0.27; [6.15 L (13 pints) of liquid per 22.7 kg (50 lb) bag of SikaGrout®-300 PT].

Shrinkage	Volume change		
	24 hours	0.0 to +0.3%	(ASTM C1090)
	28 days	0.0 to +0.3%	
Expansion	3 hours	Between 0 and +2.0 %	(ASTM C940)
Chemical Resistance	Contact Sika Canada		
Electrical Resistivity	28 days	Less than 10 000 Ω.cm	(ASTM C1202)
	W/B	Less than 0.40	
Chloride Ion Diffusion Resistance	28 days	Less than 2500 Coulombs	(ASTM C1202M)

APPLICATION INFORMATION

Yield	Approx. 14 L (0.50 ft ³) of fluid grout per bag. Use (as described in the mixing procedure below) between 5.45 and 6.15 L (11.5 and 13 pints) of water per 22.7 kg (50 lb) bag in order to achieve the proper flow.	
Flowability	Fluidity	(ASTM C939 Modified)
	Immediately after mixing	7 - 20 s
	30 min after mixing	7 - 20 s
Setting Time	Between 3 to 12 hours	(ASTM C953)

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LIMITATIONS

Injection, Filling voids and Anchoring

- Minimum ambient and substrate temperature: 5 °C (41 °F) and rising at time of application, unless using Sikacem® Accelerator (Contact Sika Canada Inc.).
- Minimum application thickness: 3 mm (1/8 in).
- Maximum application thickness: 25 mm (1 in).
- 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.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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 which will not inhibit grout bonding. Follow solvent manufacturer's instructions and warnings. Concrete must be sound and roughened to promote mechanical adhesion. Prior to placing, surface should be brought to a saturated, surface-dry (SSD) condition.

MIXING

- The whole mixing process (including type of equipment, mixing speed, mixing time, quantity of mixing water, temperatures of the mixing water and the material, ambient temperatures and batch size) will affect the material properties, particularly flow. At higher temperatures and/or with higher water amounts, the grout will behave more non-thixotropically. Site testing at the commencement of the project is recommended to ensure that the mixing and placement methods result in the specified requirements.
- For best results use a colloidal mixer similar to ChemGrout CG-600 series or other type of high shear mixer at approximately 1800 rpm. Mix for approximately three (3) minutes after the addition of the last bag or until a homogeneous mix is achieved. Continue to agitate material in the holding hopper to achieve best flow. Depending on batch size it may be necessary to continue mixing for up to six (6) minutes to obtain the desired flow.
- Alternately, for small quantities, such as when vacuum grouting voids, mechanically mix with high-speed drill (2500 rpm) and Jiffy paddle for a minimum of six (6) minutes.
- Add appropriate quantity of clean water. Add material to mixing vessel. Start by using 5.45 L (11.5 pints) of water per 22.7 kg (50 lb) bag of material. If the minimum quantity of mixing water is not sufficient to obtain a flow meeting specifications, gradually add more mixing water, never exceeding the maximum quantity of 6.15 L (13 pints) per 22.7 kg (50 lb) bag. Ambient, water and material temperatures should be as close as possible to 21 °C (70 °F). If higher, use colder water; if colder, use warmer water. Note that it is quite possible to obtain the required flow at the lower end of the water requirements and it is important to start at 5.45 L (11.5 pints) per bag. Note that excessive water in the mix may cause exudation or bleeding.
- Accurate measurement of the quantity of water to be added is important to maintain consistency between batches. If water is to be added via an in-line system, the water metering equipment must be properly and professionally calibrated and checked on a regular basis during the course of the project

CLEANING

In case of spill, wear protective equipment (chemical resistant gloves/goggles/clothing). Ventilate area. In the absence of adequate ventilation, use a properly fitted NIOSH respirator. Confine spill. Vacuum or scoop into an appropriate container. Dispose of in accordance with current applicable local, provincial and federal regulations.

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 exact product data and uses.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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