

PRODUCT DATA SHEET

SikaGrout[®]-212 Porters

GENERAL PURPOSE CEMENTITIOUS GROUT

PRODUCT DESCRIPTION

SikaGrout[®]-212 Porters is a cementitious grout. Formulated with a special blend sands ViscoCrete and plasticizing/water-reducing technology agents.

USES

- 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.

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	Plastic	Flowable	Fluid	(CRD C-942)
	1 day	4,500 psi (31 MPa)	3,500 psi (24.1 MPa)	
7 days	6,100 psi (42 MPa)	5,700 psi (39.3 MPa)	5,500 psi (37.9 MPa)	
28 days	7,500 psi (51.7 MPa)	6,200 psi (42.7 MPa)	5,800 psi (40 MPa)	
56 days	8,000 psi (55 MPa)	6,700 psi (46.2 MPa)	6,500 psi (44.8 MPa)	

Flexural Strength		Plastic	Flowable	Fluid	(ASTM C-293)
	28 days	1,400 psi (9.6 MPa)	1,200 psi (8.2 MPa)	1,000 psi (6.8 MPa)	
Splitting Tensile Strength	28 days	600 psi (4.1 MPa)	575 psi (3.9 MPa)	500 psi (3.4 MPa)	(ASTM C-496)
Shear Strength	28 days	2,000 psi (13.7 MPa)	1,900 psi (13.1 MPa)	1,900 psi (13.1 MPa)	(ASTM C-882 modified)*
* Mortar scrubbed into substrate at 73 °F (23 °C) and 50 % R.H.					
Shrinkage	28 days		0.03%		(ASTM C1090)
Restrained Shrinkage / Expansion	Early Age Height Change		<0.3%		(ASTM C-827)

APPLICATION INFORMATION

Mixing Ratio	Plastic	Flowable	Fluid		
	6 pts	6.5 pts	8.5 pts		
Coverage	0.44 ft ³ (0.01 m ³) per bag (Coverage figures do not include allowance for surface profile and porosity or material waste)				
Layer Thickness	Min.	Max.			
	1/4"	2"			
Thicker applications can be achieved. Contact Sika's Technical Services Department (800-933-7452) for further information.					
Product Temperature	65–75 °F (18–24 °C)				
Ambient Air Temperature	> 40 °F (4 °C)				
Substrate Temperature	> 40 °F (4 °C)				
Pot Life	Material must be placed within 15 minutes of mixing.				
Thinner		Plastic	Flowable	Fluid	(ASTM C-266)
	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.	

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means.
- Steel should be cleaned and 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.

MIXING

- 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 2-3 minutes.
- Refer to ACI 306 & ACI 305 Guidelines when there is a need to place this product in cold & hot temperatures. Thinner application will be more sensitive to the temperature.
- DO NOT OVER WATER!

EXTENSION WITH AGGREGATES

- For applications deeper application (plastic and flowable consistencies only), 3/8" (9.5 mm) coarse aggregate can be added.
- The aggregate must be non-reactive (reference ASTM C-1260, C-227 and C-289), clean, well graded,

Saturated Surface Dry (SSD), have low absorption and high density, and comply with ASTM C-33 size number 8 per Table 2.

- Variations in the quality of the aggregate will affect the physical properties of SikaGrout®-212 Porters and may result in different strengths.
- Do not use limestone aggregate.
- The addition rate is 25 lb (11.4 kg) of aggregate per bag. It is approximately 2.0 gallons (7.6 L) by loose volume of aggregate.

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®-212 Porters must be confined in either the horizontal or vertical direction leaving minimum exposed surface.
- SikaGrout®-212 Porters is an excellent grout for pumping, even at high flow.
- After grout has achieved final set, remove forms, trim or shape exposed grout shoulders to designed profile.
- For pump recommendations, contact Technical Service.

LIMITATIONS

- Do not use as a patching or overlay mortar or in unconfined areas.
- Bonding agents like Sika® Armatex® 110 EpoCem and others, which cure at a slower rate than SikaGrout®-212 Porters, should not be used. If bonding agents are used, follow cure times for the bonding agents used as a guide prior to putting SikaGrout®-212 Porters in service. Assure suitability with the manufacturer of the bonding agent.
- 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.
- All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

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.

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Product Data Sheet
SikaGrout®-212 Porters
October 2018, Version 01.01
020201010010000144

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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