

PRODUCT DATA SHEET

SikaGrout[®]-201

HIGH PERFORMANCE, ZERO BLEED, SAND FREE, CEMENTITIOUS
GROUT FOR GENERAL PURPOSE

DESCRIPTION

SikaGrout[®]-201 is a non-shrink, sand free, cementitious grout with a unique shrinkage compensating mechanism. It is non-metallic and contains no chlorides. With a special blend of shrinkage-reducing and plasticizing/water-reducing agents, SikaGrout[®]-201 is a shrinkage compensated material.

USES

- Use for as grout for prepacked concrete
- Use to grout and fill or repair voids.
- Use for horizontal and vertical grouting of ducts within bonded, post-tensioned structures

CHARACTERISTICS / ADVANTAGES

- Sand free allows filling and repairing voids
- Pre-packaged in accordance with ISO 9001 which ensures consistency of the manufactured material
- Silica fume enhanced for low permeability
- Easy to use, just add water
- Zero bleeding, even at high flow
- Low heat build-up
- Excellent for pumping:
 1. Does not segregate even at high flow
 2. No build-up on equipment or hoppers
- Non-corrosive, does not contain chlorides

PRODUCT INFORMATION

Chemical Base	Portland cement
Packaging	20 kg bag
Appearance / Colour	Powder / Grey
Shelf Life	9 months from date of production if stored in undamaged and unopened original sealed bags
Storage Conditions	Stored in a cool dry place between +5 °C and +35 °C
Density	~2.14 kg/L (ASTM C-138)

TECHNICAL INFORMATION

Compressive Strength	1 day	~25 N/mm ²	(ASTM C-942)
	3 days	~40 N/mm ²	(+25 °C / 60 % r.h.)
	7 days	~55 N/mm ²	
	28 days	~68 N/mm ²	

APPLICATION INFORMATION

Mixing Ratio	5.2 L per 20 kg bag (water per powder = 26 % by weight)		
Consumption	~1 698 kg/m ³		
Yield	11.8 L per 20 kg bag		
Flowability	Flowtable (mm)	~250 mm	(ASTM C-230)
Product Temperature	<30 °C, max		
Ambient Air Temperature	+5 °C min. (temperatures must be rising at time of application) +35 °C max. (at the time of application)		
Substrate Temperature	+5 °C min. (temperatures must be rising at time of application) +35 °C max. (at the time of application)		
Pot Life	60 min		
Setting Time	~3 - 8 h		

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Cable Duct Grouting:

Ensure that ducts, openings, inlets and outlets are clean, free of dirt and debris, fuels, oils and any other contaminants at all times.

Other grouting applications:

Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bolts to be grouted must be degreased with a suitable solvent cleaning agent. Concrete must be sound and roughened to promote mechanical adhesion, surfaces should be in saturated surface dry condition.

For prepacked concrete:

Aggregate must be cleaned and saturated surface dry condition.

MIXING

Add appropriate quantity of clean water. Add bag of material to mixing vessel. For best results use a colloidal mixer. Alternatively, mechanically mix with a high speed drill (2500 rpm) and Sika® jiffy paddle. Mix for approximately 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 optimum flow.

The method of mixing may significantly affect the material properties, particularly flow. At higher temperatures and/or with higher water amounts, the grout will behave less thixotropically. Therefore, it may be more appropriate to measure the flow using the flow table. Specific on site testing by the engineer is recommended to ensure that the mixing and placement methods result in the specified requirements.

APPLICATION

Make sure all forming, mixing, placing, and clean-up materials are on hand. The grout should be used within 60 minutes from the start of mixing.

The method of pumping the grout must ensure complete filling of repair void / cable ducts / area of pre-packed concrete.

When grouting ducts or other critical elements, it is highly recommended that experienced, trained technicians complete the work.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

LIMITATIONS

- Minimum application thickness: 2 mm
- Maximum application thickness: 10 mm
- Do not use as a patching or overlay mortar or in unconfined areas.
- Material must be placed within 60 minutes of mixing.
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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.

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