

PRODUCT DATA SHEET

SikaGrout[®]-113 SA

CEMENTITIOUS, NON-SHRINKAGE, GENERAL PURPOSE GROUT WITH REDUCED CARBON FOOTPRINT

DESCRIPTION

SikaGrout[®]-113 SA is a cementitious, free flowing, non-shrink, non-metallic grout, formulated with an advanced technology that combines high performance, high ultimate strength and enhanced bond properties. Suitable for use in tropical and hot climatic conditions.

USES

SikaGrout[®]-113 SA is typically used for grouting the following:

- Filling of rigid joints in concrete elements and precast structures
- Columns in pre-cast construction
- Steel anchors, cavities, gaps and recesses
- General concrete repairs
- Grouting connections between precast panels
- Under base plate grouting

FEATURES

SikaGrout[®]-113 SA is an easy to use grout requiring only the addition of water, it offers the following beneficial properties:

- Dual expansion, shrinkage compensation system
- High ultimate strength
- Good adhesion to steel reinforcement and concrete
- Non corrosive and iron free
- Good water impermeability

PRODUCT INFORMATION

Composition	Portland cement, selected fillers and aggregates, special additives
Packaging	50 kg bags
Appearance and colour	Grey powder
Shelf life	12 months minimum from production date if stored properly in original unopened packaging
Storage conditions	Store in original unopened packaging in cool and dry condition between 5°C and 35 °C. Protect from direct sunlight, heat and moisture.
Maximum grain size	~5 mm

TECHNICAL INFORMATION

Compressive strength	1 day	3 days	28 days	(ASTM C 109)
	~27 N/mm ²	~35 N/mm ²	~52 N/mm ²	
Flexural-strength	w/p ratio	28 days		(ASTM C348-08)
	0.105 (5.25 L water/50 kg bag)	~5 N/mm ²		
Tensile adhesion strength	≥ 1.5 N/mm ² (concrete failure)			(ASTM C 882-20)

APPLICATION INFORMATION

Mixing ratio	Water per 50 kg bag	Water/Powder Ratio
	5.25-5.75	0.10-0.11
Yield	~26.5 L / 50 kg bag, depending on water addition	
Layer thickness	Min. 10 mm per pour Max. 100 mm per pour	
Ambient air temperature	+5 °C min. / +35 °C max.	
Substrate temperature	+5 °C min. / +35 °C max.	
Pot Life	~2 h (23 °C)	
Setting time	More than 4 hours	
Fresh mortar density	~2.3 kg/l (25 °C)	

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.

IMPORTANT CONSIDERATIONS

- Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing
- At high ambient temperatures use chilled water for mixing to keep grout temperature below 30 °C
- In hot weather, base plates and foundations must be shaded from direct sunlight
- Condition bags < 30 °C prior to use
- Elevated temperatures will decrease working time and slump.
- Rate of strength gain will be reduced at colder temperatures. On site testing is recommended
- For additional information on SikaGrout®-113 SA or other grouting materials contact Sika Technical Department

ECOLOGY, HEALTH AND 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.

APPLICATION INSTRUCTIONS

EQUIPMENT

Power mixer, handheld mixing drill, Pan mixer

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces should be clean, sound, rough and free from oil, grease, cement laitance and all loosely adhering particles.

Absorbent surfaces should be saturated thoroughly with clean water to surface saturated dry condition without any ponding water. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.

BONDING AGENT AND STEEL PROTECTION

Embedded steel reinforcing should be free from scale, rust, oil and grease, and treated with a suitable anti-corrosion coating such as SikaTop® Armatec®-110 EpoCem®.

Where needed the application of a suitable bonding agent such as Sikadur®-32 HI MOD or SikaTop® Armatec®-110 EpoCem® will improve adhesion on large areas or where particularly dense concrete substrates are involved.

MIXING

Add water according to the desired consistency into a clean mixing vessel with proper volume before slowly adding the SikaGrout®-113 SA powder. SikaGrout®-113 SA is best mixed in a forced action mixer, for 2 to 3 minutes or until the mix is free of lumps, do not mix more than 5 minutes. Slow speed drill (maximum 500 rpm) can be also used for mixing. Do not mix more grout than can be placed within 15 to 20 minutes. Do not add extra water or other ingredients. Mix only full bags for best results.

APPLICATION

Before pouring let the mixed grout stand for approximately 5 minutes after mixing to allow entrapped air to escape. Pour into the prepared area such that the grout has the shortest distance to travel. Ensure that air displaced by the grout is allowed to escape. When carrying out base plate grouting, ensure a sufficient head of pressure is maintained to keep the grout flowing. All shoulders and exposed areas of the grout surface should be kept as small as possible.

CURING TREATMENT

As per ACI recommendations for Portland-cement concrete, curing is required.

- Moist curing should commence immediately after finishing by a fine mist of water
- Wax based Curing compounds adversely affect the adhesion of following layers of mortar, leveling mortar or protective coatings.
- Left in place forms usually provide satisfactory protection against moisture loss for formed concrete surfaces. The forms are usually left in place as long as the construction schedule allows. If the forms are made of wood, they should be kept moist, especially during hot, dry weather.
- Protect newly applied material from direct sunlight, wind, rain and frost.

CLEANING OF EQUIPMENT

Clean equipment and mixer immediately after application with water. Hardened material can only be removed mechanically.

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 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.

Sika Gulf B.S.C. (c)

Tel: +973 177 38188

Email: info@bh.sika.com

Sika Kuwait Cons. Mat. & Paints Co WLL

Tel: +965 22 282 296

Email: sika.kuwait@kw.sika.com

Web: gcc.sika.com

Sika UAE LLC

Sika MB Construction Chemicals LLC

Sika International Chemicals LLC

Tel: +971 4 439 8200

Email: info@ae.sika.com

Web: gcc.sika.com

Sika Saudi Arabia Limited

Sika Construction Chemicals for

Manufacturing LLC

Riyadh / Jeddah / Dammam / Rabigh

Tel: +966 9200 22167

Email: info@sa.sika.com

Web: gcc.sika.com

Sika LLC - Oman

Sika MB LLC

Tel. +968 22 826 500

Email: info@om.sika.com

Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
Sika MB LLC
Sika International Chemicals LLC
Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals for Manufacturing LLC
ISO 9001 – LMS
Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Product Data Sheet

SikaGrout®-113 SA

January 2025, Version 01.03

020201010010000314