

# PRODUCT DATA SHEET

## SikaGrout<sup>®</sup>-212

High performance cementitious grout

### DESCRIPTION

SikaGrout<sup>®</sup>-212 is a 1-component, ready to mix, free flowing, shrinkage compensated cementitious grout.

### USES

- General purpose grouting
- Machine and base plates
- Dowling reinforcing bars
- Bedding joints in pre-cast concrete sections
- Filling cavities, voids, gaps and recesses
- Post fixings
- For exterior and interior use

### CHARACTERISTICS / ADVANTAGES

- Easy to use (ready to mix powder)
- Shrinkage compensated properties
- Pre-batched for quality
- Good flow characteristics
- Good bond to concrete
- Non-corrosive
- No segregation or bleeding
- Can be pumped or poured
- Rapid strength development
- Contains no chloride admixtures
- Overcoatable with Sika reprofiling/levelling mortars and coatings
- Fire rating and protection properties comparable to concrete

### PRODUCT INFORMATION

<b>Composition</b>	Cement, selected fillers and aggregates, special additives		
<b>Packaging</b>	25 kg bags		
<b>Shelf life</b>	6 months from date of production		
<b>Storage conditions</b>	Store properly in dry conditions in undamaged and unopened original sealed packaging.		
<b>Appearance and colour</b>	Grey powder		
<b>Density</b>	~ 2.2 kg/lit (fresh density)		
<b>Soluble chloride ion content</b>	≤ 0.05%		EN 1015-17

### TECHNICAL INFORMATION

<b>Compressive strength</b>	<b>1 day</b>	<b>7 days</b>	<b>28 days</b>	UNE EN 1015-11
	~25 MPa	~60 MPa	~70 MPa	
<b>Tensile strength in flexure</b>	<b>7 Days</b>	<b>28 Days</b>		UNE EN 1015-11
	~8 MPa	~12.5 MPa		

Shrinkage

**7 Days**

≤ 500 µm/m

**28 Days**

≤ 1000 µm/m

UNE EN 12617-4

Expansion

0.25 - 0.5%

## APPLICATION INFORMATION

Mixing ratio

2.3 - 3.9 lit per 25 kg bag

Consumption

As a guide, ~20 kg of powder per 10 mm thickness for each m<sup>2</sup>

Yield

1 bag yields approximately 12.5lit of mortar

Layer thickness

Min. 10 mm / Max. 100 mm

Ambient air temperature

+5°C min. / +35°C max.

Substrate temperature

+5°C min. / +30°C max.

Pot Life

~40 minutes at 20 °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

- Not to be used as an overlay in unconfined spaces
- Not to be used as a patch repair
- Refer to the Sika Method Statement for more information
- Avoid application in direct sun and/or strong wind
- Do not add water over recommended dosage
- Apply only to sound, prepared substrate
- Do not add additional water after application as this may cause cracking
- Protect freshly applied material from freezing and frost
- Keep exposed surfaces to a minimum
- Do not vibrate

## 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

The substrate should be prepared by suitable mechanical preparation techniques such as high-pressure water jetting, breakers, blast cleaning, scabblers, etc. The concrete substrates should be pre-soaked with clean water continuously for 2 - 6 hours to ensure a saturated surface dry condition throughout the operation.

Immediately before pouring remove all excess or standing water from within any formwork.

### SUBSTRATE QUALITY / PRE-TREATMENT

*Concrete, mortar, stone:*

Surfaces must be sound, clean, free from ice, oils, grease, standing water and any loose or friable particles and any other surface contaminants. The concrete "pull off" (tensile) strength should be > 1.0 MPa.

*Steel, iron:*

Clean, free from oil or grease, rust and scale etc.

*Shutter/Formwork:*

All formwork should be of adequate strength, treated with release agent and sealed to prevent leakage. Sealing can be achieved by using Sikaflex® -11FC+ sealant beneath or around formwork and between joints. Ensure formwork includes outlets for extraction of the pre-soaking water. A header box/hopper should be constructed on one side of the formwork so that a grout head of 150-200 mm can be maintained during the grouting operation.

### MIXING

Pour the water in the recommended proportion into a suitable mixing container. While stirring slowly, add the powder to the water. Mix with low speed (< 500 rpm) hand drill mixer to avoid entraining too much air. Mix thoroughly at least for 3 minutes until homogeneous with no lumps. Mix only full bags for best results.

### APPLICATION

Stand the grout for ~2-3 minutes; stir with a trowel and then pour into the prepared openings.

### APPLICATION METHOD / TOOLS

**Under base plates**

Pour grout immediately after mixing into the prepared openings. Ensure, that air displaced by the mortar can easily escape, otherwise entrapped air will prevent full contact grouting. Wet porous substrates to saturated surface dry condition.

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When grouting base plates etc., ensure that a continuous and sufficient head of pressure is maintained to keep the grout flowing. To make optimum use of the products expansion properties, apply the grout as quickly as possible (within max. 15 minutes).

### Anchor bolts

The correct quantity of SikaGrout®-212 required to completely fill the annular gap between the bolt and the sides of the hole, should be determined before installation is attempted. (In most cases the bolt hole should not be more than, 15mm larger in diameter than the bolt) Place the pre-determined quantity of SikaGrout®-212 directly into the bolt hole. Push the anchor bolt into the hole and press it gently to the bottom, displacing the SikaGrout®-212 and filling the annulus around the bolt. A slight agitation of the bolt will assist the SikaGrout®-212 to fill the annulus gap evenly. Centre or locate the bolt in the desired position, using shims if necessary and then leave undisturbed until the SikaGrout®-212 has set.

If the SikaGrout®-212 does not fill the annular gap evenly during bolt insertion, withdraw the bolt and insert additional grout and re-insert the bolt. Do not attempt to add additional SikaGrout®-212 with the bolt in place.

### Bulking

SikaGrout®-212 can be used to fill voids up to 100mm in depth. For voids up to 200mm it is necessary to bulk SikaGrout®-212 with a suitable well graded aggregate ranging in size from 3 mm up to 15 mm. The quantity of aggregate added should not exceed one (1) part of aggregate to one (1) part of SikaGrout®-212 by weight.

*Note:* Only clean, dry aggregate may be used for bulking. The following chart is an indicator of what may be achieved.

	Un-Bulked 4lit SikaGrout®-212	Bulked 5lit 9.5mm stone
Slump ±	+300mm	+300mm
Consistency	Flowable	Flowable
Yield (liters)	12.6 lit	15.2 lit

	Bulked 10lit 9.5mm stone	Bulked 15lit 9.5mm stone
Slump ±	+250mm	+150mm
Consistency	Plastic	Plastic
Yield (liters)	17.9 lit	20.3 lit

#### SIKA ABYSSINIA

Chemicals Manufacturing PLC  
Sebeta, Welete · Addis Ababa  
ETHIOPIA  
Phone: +251.113.679.748  
Web: eth.sika.com

## CURING TREATMENT

Protect the fresh material from premature drying using an appropriate curing method e.g. curing compound, moist geotextile membrane etc.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.

## 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.

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