

## PRODUCT DATA SHEET

# SikaGrout<sup>®</sup>-212

High Strength shrinkage compensated cementitious grout

### DESCRIPTION

SikaGrout<sup>®</sup>-212 is a 1-component, ready to mix, free flowing, low shrinkage expanding 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

### PRODUCT INFORMATION

<b>Chemical Base</b>	Cement, selected fillers and aggregates, special additives
<b>Packaging</b>	25 kg bags
<b>Appearance / Colour</b>	Grey powder
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	Store properly in dry conditions in undamaged and unopened original sealed packaging.
<b>Maximum Grain Size</b>	D <sub>max</sub> : 2.4 mm
<b>Soluble Chloride Ion Content</b>	≤ 0.05% (EN 1015-17)

### 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

### APPROVALS / STANDARDS

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	Ambient temperature 25°C			(EN 196-1)
	<b>1 days</b>	<b>7 days</b>	<b>28 days</b>	
	~31 MPa	~80 MPa	~95 MPa	
<b>Tensile Strength in Flexure</b>	Ambient temperature +24°C			
	<b>1 day</b>	<b>7 days</b>	<b>28 days</b>	
	~5.8 N/mm <sup>2</sup>	~8.3 N/mm <sup>2</sup>	~10.2 N/mm <sup>2</sup>	
<b>Tensile Strength</b>	Ambient temperature 24°C			
	<b>1 day</b>	<b>7 day</b>	<b>28 day</b>	
	~2.6 N/mm <sup>2</sup>	~4.7 N/mm <sup>2</sup>	~5.4 N/mm <sup>2</sup>	

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	16% by weight - Max. 4.0 litres of water per 25 kg bag
<b>Fresh mortar density</b>	~2.3kg/l (density of fresh mortar)
<b>Consumption</b>	As a guide, ~20 kg of powder per 10 mm thickness for each m <sup>2</sup>
<b>Yield</b>	1 bag yields approximately ~12.5 l of mortar
<b>Layer Thickness</b>	Minimum 10 mm/ maximum 100 mm
<b>Ambient Air Temperature</b>	+5°C min. / +35°C max.
<b>Substrate Temperature</b>	+5°C min. / +30°C max.
<b>Pot Life</b>	~45 minutes at 24 °C

## 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.

## LIMITATIONS

- Not to be used as an overlay in unconfined spaces
- Not to be used as a hand applied 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

### SUBSTRATE QUALITY / PRE-TREATMENT

The concrete shall be thoroughly clean, free from dust, loose material, surface contamination and materials which reduce bond or prevent suction.

### 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. For more information on pouring techniques refer to Sika Method Statement

### CURING TREATMENT

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

### CLEANING OF TOOLS

Clean all tools and application equipment with water

immediately after use.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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### Product Data Sheet

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