





# PRODUCT DATA SHEET

# SikaGrout®-212

Flowable shrinkage compensated cementitious grout

### PRODUCT DESCRIPTION

SikaGrout®-212 is a one part flowable shrinkage compensated cementitious grout suitable for exterior and interior uses. This highly durable grout meets the requirements of Class R4 of BS EN 1504-3 & BS EN 1504-6

### **USES**

- General purpose grouting
- Under stanchion plates
- Filling cavities, voids, gaps and recesses
- Concrete repairs
- Machine & base plates
- For exterior and interior use
- Steel reinforcement anchoring

# **CHARACTERISTICS / ADVANTAGES**

- Excellent flow properties
- Pre batched for quality
- Just add water
- Compatible with Sika® FerroGard® corrosion inhibitors
- · High compressive strength gain
- Easy to mix and apply
- Contains no chloride admixtures
- Overcoatable with Sika reprofiling/levelling mortars and coatings
- Low shrinkage
- Generally more durable than equivalent class of concrete
- Does not segregate or bleed
- Fire rating and protection properties comparable to concrete
- Can be pumped or poured
- Good mechanical properties
- Grouting thickness between 10-75 mm

# **APPROVALS / STANDARDS**

Class R4 of BS EN 1504-3 and BS EN 1504-6.

### PRODUCT INFORMATION

Cement, selected fillers and aggregates, special additive	
25 kg bags	
Grey powder	
6 months from date of production if stored properly.	
in dry conditions in undamaged and unopened original sealed packaging.	
~ 2200 kg/m³ (wet density)	

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### TECHNICAL INFORMATION

Compressive Strength	Ambient temperature: +20°C			
	1 day	3 days	7 days	28 days
	~ 18 - 20 N/mm²	~ 35 - 40 N/mm²	~ 40 - 45 N/mm²	~ 50-55 N/mm <sup>2</sup>
Flexural Strength	~ 10 N/mm² (28 days)			(EN 196)
Tensile Strength	~ 3.6 N/mm² (28 days)			
Pull-Out Resistance	Displacement < 0.6mm at load of 75kN(Wet & Dry) (EN 1881)			
Expansion	0.25 – 0.50%			
Electrical Resistivity	~ 7.3			(Wenner Test)

### APPLICATION INFORMATION

Consumption	2.2 kg/m²/mm (2.2 kg/litre) Excluding allowances for loss wastage, surface profile and porosity.
Layer Thickness	10 mm min. / 75 mm max.
Ambient Air Temperature	+5°C min. / +30°C max.
Substrate Temperature	+5°C min. / +30°C max.

### **APPLICATION INSTRUCTIONS**

### **SUBSTRATE QUALITY / PRE-TREATMENT**

Concrete, mortar, stone: Surfaces must be sound, thoroughly 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. The substrate should be prepared by suitable mechanical preparation techniques such as high pressure water jetting, breakers, blastcleaning, 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 grout, remove all excess or standing water from within any formwork, cavities or pockets.

#### **MIXING**

Place the water into a forced action grout mixer or in a

clean drum. Slowly add complete bag of SikaGrout® 212 into the water and continuously mix for 2 minutes in mixer to achieve a uniform and lump free consistency. Alternatively use a slow speed drill (200-500 rpm) and helical mixer.

Dependent on the desired consistency and flow properties, the mixing ratio can be adjusted.

Measure the appropriate amount of water to achieve the desired grout consistency given in the table below. Heat water if necessary to achieve a temperature between 15-20°C.

# Water addition rate per 25

kg bag	
Pourable consistency	2.3 – 3.9 litres
Flowable consistency	2.3 – 3.9 litres

### **APPLICATION**

Pour the mixed grout into the header box/hopper ensuring continuous grout flow during the complete grouting operation to avoid trapping air. Use steel banding or chains to assist flow where necessary. For large volume placement, grout pumps are recommended

#### **CURING TREATMENT**

After the grout has initially hardened, remove formwork and trim edges while concrete is 'green'. Cure all exposed grout surfaces using Sikafloor® ProSeal. In cold weather apply heat blankets to maintain a constant temperature.

### **CLEANING OF TOOLS**

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

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# **LIMITATIONS**

- Do not exceed water addition
- Not to be used for patch repair works
- Do not use vibrating pokers
- Use only on clean, sound substrate
- Do not apply when there is a risk of frost
- Pour or pump from one side only
- Keep exposed surfaces to a minimum





# **VALUE BASE**

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

### 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.

### **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.

### **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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