



# SikaGrout® 212

## Flowable Shrinkage Compensated Cementitious Grout

### Technical Data Sheet

#### DESCRIPTION

**SikaGrout 212** is a single component flowable shrinkage compensated cementitious grout based on a blend of cements graded aggregates and admixtures.

#### USES

- \* Under stanchion plates.
- \* Void filling.
- \* Concrete repairs.
- \* Machine base plates.
- \* For exterior and interior use.

#### 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.
- \* Excellent bond to concrete.
- \* 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.

#### Technical Data (typical)

<b>Mixed colour:</b>	Grey
<b>Mixed wet density:</b>	2.2 kg/litre
<b>Application temperature:</b>	+5°C min, +30°C max (Substrate and ambient)
<b>Application thickness per layer:</b>	10 mm minimum 75 mm maximum
<b>MECHANICAL PROPERTIES</b>	
(@ 20°C)	24 hours      18 - 20 N/mm <sup>2</sup>
	3 days        35 - 40 N/mm <sup>2</sup>
	7 days        40 - 45 N/mm <sup>2</sup>
	28 days      50 - 55 N/mm <sup>2</sup>
<b>Early expansion:</b>	0.25 - 0.50% 
<b>Water addition:</b>	2.3 litres - 3.9 litres per 25 kg (depending on consistency required)
<b>'Working time':</b>	20 mins

All above values are approximate.

## CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

## STEEL REINFORCEMENT PRIMING

Prior to applying **SikaGrout 212** into the repair area, apply two coats of **SikaTop® Armatec 110 EpoCem®** onto the reinforcement in accordance with the product technical data sheet.

## MIXING

**SikaGrout 212** should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Mix **SikaGrout 212** with water for at least 2 minutes to achieve a uniform consistency.

## APPLICATION

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water.

When pouring, the area of grouting must be tightly shuttered and a header box used so that a grout head of 150 to 200 mm can be maintained.

For larger applications **SikaGrout 212** can be placed using a grout pump. Ensure that air is displaced by grout, if necessary, by making breather holes. Use steel rods or chains to assist the flow of grout where necessary.

After the grout has initially hardened remove any shuttering and keep the grout damp by covering with polythene or damp hessian.

### Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

### Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

SIKA LIMITED

Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ

Tel: 01707 394444 Email: sika@uk.sika.com

Fax: 01707 329129 www.sika.com

## IMPORTANT CONSIDERATIONS

### CURING

It is essential to cure the product immediately after application for a minimum of 5 - 7 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

- \* Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.
- \* Use only clean potable water.
- \* Do not add water over recommended dosage.
- \* Apply only to prepared, sound substrates.
- \* Protect freshly applied material from freezing for 3 days.

### CLEANING

Remove **SikaGrout 212** from tools and equipment with water. Hardened material can only be removed mechanically.

### PACKAGING

Refer to latest price list.

### CONSUMPTION

2.2 kg/m<sup>2</sup>/mm (2.2 kg/litre)

Excluding allowances for loss wastage, surface profile and porosity.

### STORAGE AND SHELF LIFE

Minimum 9 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

