

Product Data Sheet
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SikaGrout®-214

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General Purpose shrinkage compensated cementitious grout

Product Description

SikaGrout®-214 is a 1-component, ready to mix, free flowing, low shrinkage expanding pouring mortar.

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

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

Product Data

Form

Appearance / Colour Grey powder

Packaging 25 kg bags

Storage

Storage Conditions / Shelf-Life 12 months from date of production if stored properly in dry conditions in undamaged and unopened original sealed packaging.

Technical Data

Chemical Base Cement, selected fillers and aggregates, special additives

Density ~ 2.2 kg/l (fresh density)

Construction



Mechanical / Physical Properties

Chloride Ion content ≤ 0.05 % EN 1015-17

Compressive Strength (EN 196-1)

20°C stored under water

3 days	7 day	28 day
> 30 N/ mm ²	> 45 N/ mm ²	> 60 N/ mm ²

System Information

Application Details

Consumption As a guide, ~20 kg of powder per 10 mm thickness for each m²
1 bag yields approximately 12.3 litres of mortar

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

Substrate Preparation Delaminated, weak, damaged and deteriorated concrete shall be removed by suitable means. The concrete shall be roughened but shall not prevent flow of the grout. The concrete tensile strength (pull off) shall be > 1.0 MPa.
Thoroughly pre-wet the surface before applying the grout. The surface shall not be allowed to dry before application. Wipe away any excess water so the surface has a dark matt without glistening or saturated surface dry (SSD) appearance. Surface pores and pits shall not contain water.

Application Limitations

Layer Thickness Min. 5mm Max. 40mm
With 25% added aggregates 4.0-8.0mm up to 80mm thickness
With 25% added aggregates 8.0-16.0mm up to 80mm thickness

Substrate Temperature +5°C min. / +30°C max.

Ambient Temperature +5°C min. / +30°C max.

Application Instructions

Mixing Pour the water in the correct 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 homogenous with no lumps. Mix only full bags for best results.

Application Method 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

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

Pot-Life @ 20°C ~40 minutes

Notes on Application / Limitations

- 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

Curing Details

Curing Treatment

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

Value Base

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.

Local Restriction

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing 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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