

PRODUCT DATA SHEET

SikaGrout[®]-212

HIGH STRENGTH, SHRINKAGE COMPENSATED, CEMENTITIOUS GROUT

DESCRIPTION

SikaGrout[®]-212 is a high strength, shrinkage compensated, self-leveling, pre-mixed cementitious grouting mortar with extended working time to suit local ambient temperature. Complies to ASTM C-1107.

USES

- Machine foundations and base plates
- Rail beds
- Columns in precast construction anchor bolts
- Filling cavities, voids, gaps and recesses
- Post fixings

CHARACTERISTICS / ADVANTAGES

- Easy to use (ready to mix powder)
- Excellent flowability
- Good dimensional stability
- High strength, adjustable consistency
- Non-corrosive
- No segregation or bleeding
- Economical

PRODUCT INFORMATION

Packaging	25 kg bags
Appearance / Colour	Grey powder
Shelf Life	12 months when unopened
Storage Conditions	Store properly in dry conditions in undamaged and unopened original sealed packaging. Store out of direct sunlight and protect from rainfall. Avoid compaction.
Density	~1.88 - 2.16 kg/l (fresh density)
Bulk Density	~ 1.42 kg/l

TECHNICAL INFORMATION

Compressive Strength	1 days	7 days	28 days	(ASTM C109)
	>15-18 MPa	>35-40 MPa	>50-57 MPa	Flowable
	Water ratio: (3.8-4 L per 25 kg bag) Flow: 280-300 mm			
	1 days	7 days	28 days	(ASTM C109)
	>22-25 MPa	>45-50 MPa	>53-60 MPa	Pourable
	Water ratio: (3.5-3.7 L per 25 kg bag) Flow: 230-260 mm			
	1 days	7 days	28 days	(ASTM C109)
	>32-35 MPa	>48-53 MPa	>54-61 MPa	Stiff
	Water ratio: (3-3.4 L per 25 kg bag) Flow: 90-110 mm (with 24 strokes)			

APPLICATION INFORMATION

Consumption	As a guide, ~20 kg of powder per 10 mm thickness for each m ²
Layer Thickness	Minimum Gap - 10 mm / Maximum Gap - 100 mm
Ambient Air Temperature	+10°C min. / +35°C max.
Substrate Temperature	+5°C min. / +35°C max.
Pot Life	~40 minutes at 20 °C

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surface should be clean, sound and free from oil, grease, laitance, and loose particles. Metal surfaces (iron and steel) should be free from scale, rust, oil and grease. Absorbent substrates must be saturated thoroughly but with no standing water.

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 homogenous with no lumps. Mix only full bags for best results.

APPLICATION

Stand the grout for ~1-2 minutes; stir with a trowel and then pour into the prepared openings. When carrying out baseplate grouting, ensure sufficient head of pressure is maintained to keep mortar flow uninterrupted. Make sure necessary formwork is firmly in place and watertight. 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. Hardened mortar can only be mechanically removed.

LIMITATIONS

- Not to be used as an overlay in unconfined spaces
- 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
- Keep exposed surfaces to a minimum
- Do not vibrate

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.

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.

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.

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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