BUILDING TRUST

PRODUCT DATA SHEET

SikaGrout®-212 -11 TH

HIGH PERFORMANCE NON-SHRINK GROUT

DESCRIPTION

SikaGrout®-212-11 TH is a non-shrink, self-levelling, cementitious grouting mortar with extended working time to suit local ambient temperatures.

USES

- Machine foundations
- Rail beds
- Columns in precast construction
- Anchor bolts
- Bridge bearings
- Cavities, gaps, recesses, etc.

CHARACTERISTICS / ADVANTAGES

- Excellent flowability
- Good dimensional stability
- High strengths, adjustable consistency
- No bleeding
- Non-toxic, non-corrosive
- Ready and easy to use
- Economical
- Impact and vibration resistant

PRODUCT INFORMATION

Packaging	25 kg / bag
Appearance / Colour	Grey Powder
Shelf life	9 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in dry conditions and protected from direct sunlight.
Density	~1.47 kg/L

TECHNICAL INFORMATION

Compressive Strength		**Water Content (15%)**	**Water Content (16%)**	(ASTM C109)
	1 day	~450	~400	
	3 days	~600	~550	
	7 days	~700	~650	
	28 days	~820	~750	
	Note: Test at 28°C in lab condition. (kgf/cm²)			
Bleeding	0			(ASTM C232)

APPLICATION INFORMATION

Consumption

Approx. 2 kg of powder for one litre of mortar.
For 1 m³ of mortar approx. 75 x 25 kg bags and 280 litres of water.

Flowability

Water Content (%)	Consistency (J rote)
15	<12 seconds
16	<10 seconds

Note: Test at 28°C in lab condition.

Setting Time (ASTM C807)

Water Content (%)	Initial	Final
15	~ 4 : 00	~ 6 : 00
16	~ 5 : 00	~ 7 : 00

Note: Test at 28°C in lab condition (hours : minutes)

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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

MIXING

Powder should be added to the pre-gauged water to suit the desired consistency. For J rote of 12 seconds, approx. 3.75 litres of water. (approx. 15% by weight of SikaGrout®-212-11 TH) should be used. The amount of water may be reduced within the flowable consistency if desired. Mix mechanically with a low speed drill (max. 500 RPM) with a disc agitator attached, until a smooth, even consistency is achieved.

APPLICATION

Pour mortar after mixing. Ensure, that air entrapped into the grout is allowed to escape. When carrying out base plate grouting, ensure sufficient head of pressure is maintained to keep mortar flow uninterrupted. Make sure, that necessary formwork is firmly in place and watertight.

Grouting of Machine Beds
Prewet thoroughly, no standing water in bolt holes. If possible, grout anchor bolts first, then the mortar bed in a second operation. Ensure continuous flow of mortar. Distance between anchor bolt and substrate to be at least 3 x max. diameter of mortar aggregates (approx. 5 mm.)

Grouting of Base Plates
Prewetting for approx. 24 hrs, no standing water. Maintain constant hydro-static pressure to ensure continuous flow. Use cable or chain to make sure that all cavities are filled. Make sure that entrapped air can escape.

CLEANING OF EQUIPMENT

Clean all tools and equipment with water immediately after use. Hardened mortar can only be removed mechanically.

IMPORTANT CONSIDERATIONS

Use SikaGrout®-212-11 TH for grouting. Min. gap 5 mm. Max. gap 50 mm. At temperatures lower than 20°C setting time and strength gain will be slower. Normal curing practice should be observed for at least 3 days.

- Not to be used for overlay or repair works in unconfined spaces
- Refer to the Method Statements for Cementitious Grouts 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

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 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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