

PRODUCT DATA SHEET

SikaGrout[®]-212 HP TH

HIGH EARLY STRENGTH AND HIGH PERFORMANCE NON-SHRINK GROUT

DESCRIPTION

SikaGrout[®]-212 HP TH is a ready to use, shrinkage compensated, non-ferrous, high early strength, self-levelling, bearing grout. Pre-mixed and selectively graded materials result in a dense homogenous mix.

USES

SikaGrout[®]-212 HP TH is designed to counteract the normal shrinkage of mortar and concrete and to absorb and minimize the effects of vibration on foundations. The high early strength property is suitable for work that requires early loads including machinery bases, structural columns, prestressed girders, bridge bearings, rail posts and seatings bolts etc.

CHARACTERISTICS / ADVANTAGES

- Excellent flowability
- Good dimensional stability
- Controlled expansion
- Contains no added chlorides; will not rust, bleed, or harm metal on contact
- High early compressive strength; allows earlier loading and minimizes costs
- High early strength produces minimal downtime for maintenance and repairs
- Non-toxic, non-corrosive
- Ready and easy to use
- Economical

APPROVALS / CERTIFICATES

Non-shrink definition as per ASTM C1107 applies.

PRODUCT INFORMATION

Packaging	25 kg / bag
Appearance / Colour	Grey Powder
Shelf life	6 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.
Bulk Density	~1.47 kg/L

TECHNICAL INFORMATION

Compressive Strength	Water Content	Water Content	(ASTM C109)
	(13.5%)	(14%)	
10 hours	~300	~200	
24 hours	~550	~500	
7 days	~750	~700	
28 days	~850	~780	

Note: Test at 28°C in lab condition

APPLICATION INFORMATION

Consumption Approx. 2 kg of powder for one litre of mortar.
For 1 m³ of mortar approx. 77 x 25 kg bags and 260 litres of water.

Flowability	Water Content (%)	Consistency (J rote)
	13.5	<20 seconds
14.0	<15 seconds	

Note: Test at 28°C in lab condition.

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 thoroughly, but no standing water.

MIXING

Powder should be added to the pre-gauged water to suit the desired consistency. 3.375 - 3.50 litres of water are used at 30°C ambient temperature to obtain a free flowing and self-levelling grout.

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. Then carrying out baseplate grouting, ensure sufficient head of pressure is maintained to keep mortar flow uninterrupted.

Make sure, that necessary formwork is firmly in place and watertight. Use chains, rods, or tamping devices to compact grout tightly, completely removing all air voids.

CLEANING OF EQUIPMENT

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

IMPORTANT CONSIDERATIONS

- Min. gap 10 mm. Max. gap 50 mm.
- Handle SikaGrout®-212 HP TH like concrete regarding protection against temperatures and weather.
- Exposed finished grout must be cured; use sheeting water or Antisol® E
- Do not add any cement or any other additives to SikaGrout®-212 HP TH
- Do not retemper grout after initial set.
- 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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