

PRODUCT DATA SHEET

SikaGrout[®]-285

CEMENT-BASE FLUID EXPANDING MORTAR, WITH HIGH MECHANICAL RESISTANCE

DESCRIPTION

One component cement base mortar with high mechanical resistance. It is supplied ready to use, only by adding water.

USES

Sikagrout[®]-285 is indicated for all of uses that need high initial or final high mechanical resistances:

- Bearing plates, machine foundations and anchors.
- Metallic elements (reinforcements, etc.), concrete posts and pre-cast construction columns.
- Cavities, gaps and recesses into the concrete mass filling.

Note: Do not use for surfaces levelling.

FEATURES

Sikagrout[®]-285 has the following properties:

- Easy mixing and placing in cast.
- Good flow characteristics and pourable with Self-levelling.
- Free from chlorides and metallic particles. It does not oxidize in contact with humidity, it protects metallic parts against corrosion, due to its basic PH
- Slightly expanding.
- High mechanical resistances and quick resistances development.
- Excellent concrete, mortar or steel adhesion. It provides a monolithic joining and impact and vibration resistance.
- Waterproofing: water and oils resistant.
- It is neither toxic, nor corrosive.

PRODUCT INFORMATION

Composition	Cement, selected fillers and aggregates, special additives
Packaging	25 kg bags
Shelf life	12 months minimum from production date.

Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 5 °C and 35 °C. Protect from direct sunlight.			
Soluble chloride ion content	≤ 0.05%	(EN 1015-17)		
Compressive strength	1 day ≥ 30 MPa	7 days ≥ 55MPa	28 days ≥ 80 MPa	(EN 196-1)
Expansion				
Mixing ratio	2.5 – 3.5 litres clean water per 25kg bag, according to the requested workability of the mortar			
Yield	1 bag yields approximately 12.5 l of mortar			
Layer thickness	Minimum 10 mm/ maximum 100 mm			
Ambient air temperature	+8°C min. / +30°C max.			
Substrate moisture content	+8°C min. / +30°C max.			
Pot Life	~40 minutes at 20 °C			
Fresh mortar density	2.3 (fresh density)			

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- 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

ECOLOGY, HEALTH AND SAFETY

SUBSTRATE QUALITY / PRE-TREATMENT

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

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 ~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

CURING TREATMENT

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

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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

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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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