

PRODUCT DATA SHEET

SikaLevel[®]-270

Polymer modified cementitious floor leveling compound for 5-70 mm

DESCRIPTION

SikaLevel[®]-270 is a one part, polymer modified, pumpable, self-levelling, fast hardening cementitious underlayment for the levelling and smoothing of interior floors prior to the application of the final floor finish. Suitable for use in hot and tropical climate conditions.

USES

SikaLevel[®]-270 is suitable for manual or pump application to level interior floors at thicknesses from 5 to 70 mm. It provides a smooth and even substrate prior to the installation of:

- Ceramic or stone tiles
- Linoleum, PVC, or vinyl sheet flooring
- Wood flooring or carpets

Suitable for levelling both large and small areas in commercial, residential, and domestic buildings.

SikaLevel[®]-270 is particularly recommended as a substrate for subsequent floor coverings installed with Sikabond[®] adhesives, SikaCeram[®] tile adhesives, or Sikafloor[®] systems under foot traffic.

FEATURES

- Fast application due to excellent flow and self-leveling properties
- Easy to apply by pump or manual placement
- Low shrinkage and internal stress
- Excellent bonding and surface compaction
- Rapid hardening and quick drying

PRODUCT INFORMATION

Packaging	25 kg bags
Appearance and colour	Grey powder
Shelf life	Up to 12 months from the date of production if stored properly in the original, unopened packaging and in accordance with the conditions specified below.
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight, heat and moisture.
Density	~2.20 kg/L (fresh mortar)
Bulk density	~1.55 kg/L

TECHNICAL INFORMATION

Compressive strength	(25°C)	1 Day	7 Days	28 Days	(EN 196-1)
	w/p = 0.15 (3.75 L/25 kg)	~10 N/mm ²	~28 N/mm ²	~35 N/mm ²	
Flexural-strength	(25°C)		28 Days		(EN 196-1)
	w/p 0.15 = 3.75 L / 25kg		~8 N/mm ²		

APPLICATION INFORMATION

Mixing ratio	3.75 L to 4 L of water per 25 kg bag						
Consumption	~1.6 kg/m ² /mm (consumption based on dry material, without addition of water) <small>This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.</small>						
Layer thickness	Min. 5 mm Max. 70 mm						
Ambient air temperature	+10 °C min. / +35 °C max.						
Relative air humidity	75% max.						
Substrate temperature	+10 °C min. / +35 °C max.						
Pot Life	~20 min (25 °C and 50 % r.h.)						
Waiting time to overcoating	SikaLevel®-270 can be covered with textile and elastic coverings as follows: <table><thead><tr><th>Layer Thickness</th><th>Waiting Time</th></tr></thead><tbody><tr><td>≤ 5 mm</td><td>~48 h</td></tr><tr><td>≥ 10 mm</td><td>~72 h</td></tr></tbody></table> <small>All values are approximate and are subject to climatic variation. When covering SikaLevel®-270 always ensure the moisture content has achieved the required value for the product to cover, as the waiting time will vary with the application thickness and ambient humidity. (Refer to the covering product data sheet)</small>	Layer Thickness	Waiting Time	≤ 5 mm	~48 h	≥ 10 mm	~72 h
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≤ 5 mm	~48 h						
≥ 10 mm	~72 h						
Applied product ready for use	At +25 °C and 50 % r.h. Foot Traffic ~24 h <small>Times are approximate and will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity.</small>						

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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Suitable substrates: Concrete and cement screeds
The substrate must be sound, clean, dry, and of adequate strength. Concrete must have a minimum com-

pressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm².

Concrete surfaces must be prepared mechanically using abrasive blast cleaning, grinding, or scarifying equipment to remove cement laitance and achieve an open-textured surface. Weak or deteriorated concrete must be completely removed, and surface defects such as blowholes and voids must be fully exposed. All dust, loose, and friable material must be completely removed from all surfaces before application, preferably by vacuum.

All surfaces must be free from contaminants such as dirt, oil, grease, coatings, surface treatments, laitance, or any other materials that could impair adhesion. The substrate must have sufficient load-bearing capacity and dimensional stability.

Repairs, surface levelling, and filling of blowholes or voids must be carried out using suitable products from the Sika® range. Contact Sika Technical Department for more information.

Priming:

Sikafloor®-01 Primer: (dilution 1 kg Sikafloor®-01 Primer : 3 l water) application by brush or roller, approximate consumption 70 g/m² (210 g/m² diluted with water). Please refer to the relevant Product Data Sheet for recommended applications and details.

MIXING

Add cold water according to the desired consistency into a clean mixing vessel before slowly adding the SikaLevel®-270 powder. SikaLevel®-270 should be mixed by using low speed electric mixer (300 to 400 rpm) for 2-3 minutes or until the mix is free of lumps. After a short maturing time, mix again thoroughly. In case of higher temperature, the water could be cooled down by using clean ice.

Note: Do not mix SikaLevel®-270 with cement or other cementitious product. Do not add extra water or other ingredients. Mix only full bags for best results.

APPLICATION

Pour the mixed material onto the primed surface and apply by trowel or pin screed rake to the required thickness. Roll thoroughly with a spiked roller in two directions to remove any entrapped air. For pump application, please contact Sika Technical Department for detailed recommendations.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be mechanically removed.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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