BUILDING TRUST

PRODUCT DATA SHEET

SikaLevel®-270 PK

POLYMER MODIFIED CEMENTITIOUS FLOOR LEVELING COMPOUND FOR 5-70 MM.

DESCRIPTION

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

USES

SikaLevel®-270 PK can be applied manually or by pump to level floors at a thickness between 5 and 70 millimeter, prior to the subsequent finishing with ceramic or stone tiles, linoleum, PVC sheet, wood flooring, vinyl sheets or carpets etc.

- Levelling of both large and small surfaces.
- Typical uses are in commercial, residential and domestic properties etc.

SikaLevel®-270 PK is particularly suitable for the subsequent application of floor coverings using products from the Sikabond® elastic bonding range, tiling mortars from the SikaCeram® range or Sikafloor range under foot traffic.

CHARACTERISTICS / ADVANTAGES

- Fast application because of the good flow and cohesion of the fresh product.
- Easy to place by pump or manual application.
- Low tension.
- Good bond and compaction.
- Fast hardening and quick drying.

PRODUCT INFORMATION

Packaging	25 kg bags
Appearance / Colour	Grey powder
Shelf Life	6 months from the date of production.
Storage Conditions	Store in dry conditions in original sealed undamaged packaging at temperatures between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.
Density	~2.20 kg/l (fresh mortar)
Bulk Density	~1.55 kg/l
Compressive Strength	w/p = 0.23 {3.75-6L / 25 kg bag,depending upon floor requirement} 1 Day: ~10 N/mm² 7 Days: ~28 N/mm² 28 Days: ~35 N/mm² (EN 196-1)
Tensile Strength in Flexure	28 Days ~8 N/mm² EN 196-1
Mixing Ratio	3.75 L to 4 L of water per 25 kg bag

Consumption	~1.6 kg/m²/mm (consumption based on dry material, without addition of water) 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.
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 / Overcoating	SikaLevel®-270 PK can be covered with textile and elastic coverings as follows: Layer Thickness Waiting Time ▪ ≤ 5 mm ~48 h ▪ ≥ 10 mm ~72 h All values are approximate and are subject to climatic variation. When covering the SikaLevel®-270 PK 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)
Applied Product Ready for Use	At +25°C and 50 % r.h. Foot Traffic ~24 h Note: Times are approximate and will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity.

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.

SUBSTRATE QUALITY / PRE-TREATMENT

- Suitable substrates: Concrete, cement screeds.
- Concrete substrate must be sound, rough and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- The substrate must be sound, rough, clean, dry and free of all contaminants such as dirt, oil, grease, coatings, cement laitance, sinter layers and surface treatments, etc.
- The substrate must have adequate strength, load bearing capacity and dimensional stability.
- Repairs to the substrate, filling of blowholes / voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur®, Sikagard®, SikaRep® or SikaMonotop® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

Priming:
Sika® Astar: (no dilution with water) application by brush or roller, approximate consumption 0.1 - 0.2 kg/m2. Please refer to the relevant Product Data Sheet for recommended applications and details. Or, 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 PK powder. SikaLevel®-270 PKshould be mixed by using low speed electric mixer (approximate 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 water temperature, the water could be cooled down by using clean ice.
Note: Do not mix SikaLevel®-270 PK with cement or other cementitious product. Do not add extra water or other ingredients. Mix only full bags for best results.

APPLICATION

Manual:
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.

Pump application:
Please contact Sika Technical Department for further information.

CLEANING OF TOOLS

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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