

PRODUCT DATA SHEET

SikaLevel®-173

Cement-based highly fluid self-levelling underlayment for levelling concrete substrates.

DESCRIPTION

Sikalevel® – 173 is a self-levelling screed for old and new interior floors. A ready-to-mix mortar for preparing substrates before laying thin floor coverings. Application thickness is between 3mm and 8mm. It is a ready-to-wet mortar for preparing substrates before laying thin floor coverings. Sikalevel® – 173 can be covered with most floor coverings.

USES

Interior floors where an even and smooth surface is required, e.g. houses, hospitals, hotels, office buildings.

Permissible substrate:

- Mortar screed
- Concrete slabs
- Prefabricated elements

Possible covering materials:

- Carpet
- Vinyl sheeting
- Tiles
- Parquet
- Rubber
- Floor Paints

CHARACTERISTICS / ADVANTAGES

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- Self-levelling and self-smoothing
- Excellent adhesion
- Compatible with traditional floor coverings
- Quick opening to traffic

PRODUCT INFORMATION

Packaging	25 kg per bag
Appearance / Colour	Gray powder
Shelf Life	Up to 6 months shelf life from the date of manufacture if retained in its original packaging
Storage Conditions	Keep stored in a cool, dry place, away from direct sunlight and excessive moisture
Density	1.8 kg/liter (paste)

Effective Thickness	3mm to 8mm per layer		
Compressive Strength	(ASTM C109)		
	Days	MPa	PSI
	28 days	≥25 - 30	≥3,625
Tensile Strength in Flexure	(ASTM C580)		
	Days	MPa	PSI
	28 days	≥10	≥1,450
Tensile Adhesion Strength	ASTM C1583		
	Days	MPa	PSI
	28 days	≥1.5	≥217
Mixing Ratio	4.75 to 5.25 liters of water per 25 KG bag		
Consumption	1.6 kg per sqm per mm thickness		
Pot Life	10 minutes		
Setting Time	ASTM C191 Initial: 5 to 6 hours Final: 6 to 8 hours		

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.

LIMITATIONS OF USE

- Do not mix with other hydraulic binders/cement.
- Sand and admixture must not be added.
- Working temperature range: 10°C - 35°C
- All windows and doors should be closed to avoid draughts and premature drying during the first few hours following application.
- Do not apply in full sunlight or on hot substrate.

LIMITATIONS

- Ensure all surface preparation, testing and mixing instructions are followed precisely
- Do not add cement, lime, gypsum, plaster, bonding agents, aggregates or other materials except where specified on the Technical Data Sheet
- Do not apply Sikalevel® – 173 over frozen or frost filled surfaces
- Do not mix or apply Sikalevel® – 173 when temperatures are below 5°C or above 35°C. Also, do not apply if temperatures are expected to reach these levels within 24 hours after application.
- Wherever possible, test areas are recommended to ensure the suitability of the product for the intended use. This should include the floor finishing/covering.

Floor Coverings

As a general guide, the surface finish of Sikalevel® – 173 is not dissimilar to concrete. Any adhesives used to bond subsequent floor coverings that are compatible with concrete will be compatible with Sikalevel® – 173 PH. Strictly follow the floor covering adhesive manufacturer's instructions.

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 PREPARATION

- Substrates must be fully cured and structurally stable.
- Substrates must be clean, sound, solid, dust-free and without any traces of oil, laitance, curing compound, cracks, plaster or paint and any other product which may affect bonding.
- Scrape, brush off or vacuum-clean all traces of plaster, laitance, paint, non-bonded adhesive.
- Substrates bearing excessive traces of wax, grease or paint must be stripped.
- Saturate the substrate with water for a couple of hours before application.

SURFACE PREPARATION

PRIMING

Apply LANKO 162 FLOW PRIME on substrate. This layer must still be tacky when pouring Sikalevel® – 173.

CURING TREATMENT

Adequate curing is essential for good quality floors. After final troweling and as soon as the surface hardened sufficiently to prevent damage, it should be cured with curing compound.

JOINT TREATMENT

- Joints should be made using a machine saw or by laying a plastic tracking strip.
- Every 25m² at a maximum distance of 8m, if the surface is to be painted or left bare.
- Every 50m² at a maximum distance of 10m, in all other cases. Pre-existing construction or expansion

joints must be respected.

MIXING

- Machine-mix one 25kg bag of Sikalevel® – 173 PH with 4.75 - 5.25 liters of clean water (i.e. 19% - 21% water content) until the compound is evenly distributed and lump-free.
- No water must be added once the mortar has been mixed.

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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Product Data Sheet

SikaLevel®-173
September 2026, Version 01.02
020815030010247368

SikaLevel-173-en-PH-(09-2026)-1-2.pdf