

PRODUCT DATA SHEET

SikaLevel®-102 (VN)

POLYMER MODIFIED CEMENTITIOUS FLOOR LEVELLING COMPOUND FOR 1-5 MM

DESCRIPTION

SikaLevel®-102 (VN) is a one part, polymer modified, pumpable self-leveling cementitious underlayment for the leveling and smoothing of interior floors.

USES

SikaLevel®-102 (VN) can be applied to level floors at a thickness between 1-5 mm, prior to subsequent finishing with ceramic or stone tiles, carpets, PVC sheets, suitable under wood and laminate floating floor systems. Typical uses are in residential and domestic properties.

CHARACTERISTICS / ADVANTAGES

- Very good flow and cohesion of the fresh product
- Easy to place by pump or manual application
- Low shrinkage
- For interior use
- Good bond and compaction
- Suitable for rolling chair traffic (from 3 mm thickness layer)
- Good surface hardness and smoothness

PRODUCT INFORMATION

Chemical base	Cement
Packaging	Bag 25 kg
Shelf life	6 months from the date of production
Storage conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions
Appearance / Colour	Grey powder
Maximum Grain Size	0.5 mm

TECHNICAL INFORMATION

Compressive Strength	Time	Value
	24 hours	> 10.0 N/mm ²
7 days	> 15.0 N/mm ²	
28 days	> 20.0 N/mm ²	
The values are valid at 20°C and 65% relative humidity and follow Standard EN 13892-2.		
Tensile Strength in Flexure	28 days	> 5.0 N/mm ² (20°C) EN 13892-2

SYSTEM INFORMATION

System Structure

- Priming: Sikafloor®-01 Primer
- Levelling mortar: SikaLevel®-102 (VN)

Please refer to the relevant PDS and Method Statement before application.

APPLICATION INFORMATION

Mixing ratio 5.75-6.25 litres of clean water for 1 bag of 25 kg

Consumption 1.5 kg/m²/mm

Yield

Thickness

2 mm

5 mm

Consumption

3 kg/m²

7.5 kg/m²

Consumption is always depending on the substrate surface's roughness.

Layer Thickness 1-5 mm

Pot Life ~ 30 min. at 20°C

Waiting Time Ready for foot traffic after approx. 3 hours

Applied Product Ready for Use

Up to 3mm after approx. 24 hours

Each additional mm further 24 hours. All values are approximate and are subject to climate fluctuation. Values given with +20°C and 65% relative humidity, temperature of substrate minimum +15°C.

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.

FURTHER DOCUMENTS

The applicable recommendations, guidelines, European Standards, regulations and Safety Data Sheets are to be observed, together with the recognized architectural and engineering regulations.

IMPORTANT CONSIDERATION

Do not exceed the recommended water dosage. Do not add more water when the product is setting. Do not mix with cements or other loose material! Do not exceed the recommended thickness. Product must always be covered by topping layer. It is necessary to avoid casting peripheral joints and use marginal strips. Not suitable for slopes or inclines > 1.0%. Freshly and stiffed SikaLevel®-102 (VN) must be always protected from damp, condensation and water! When product is applied at low temperature or at non-absorptive substrate, after grinding dust may occur on the surface and that result in weak adhesion of adhesives. In this case is always a must very thorough cleaning of the surface and in some cases additional application of the primer.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, stor-

age 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

- Adequate strength, load bearing capacity, dimensional stability and permanent dryness.
- Free of residues which reduce adhesion, e.g. dust, dirt, oil, fat and loose particles.
- Separation layers, sinter layers, and other similar contamination should be removed through appropriate measures, such as sanding, brushing, abrasive blast cleaning, milling or through cleaning.
- Old, loose and weak levelling layers should be removed mechanically.
- With subsequent installation of floor coverings, please follow local requirements for minimal residual moisture.
- Layers of water-soluble adhesives, e.g. sulphite waste adhesive, are to be mechanically removed.
- Remaining adhesive residues should be primed with Sika epoxy primer.
- Old water resistant adhesives are to be mechanically removed as thoroughly as possible.
- Old ceramic coverings and natural stones should be firmly laid, thoroughly cleaned eventually abraded.
- Rooms in buildings without a basement are to be sealed against rising dampness in compliance with the standard.
- Carry out preparatory work such as filling joints, evening out hollows and unevenness using a suitable Sika repair mortar.

- The requirements of the relevant valid standards, guidelines and data sheets apply.

MIXING

When mixing manually add the dry powder (25kg) into a container with the clean water. The water required is between 5.75 and 6.25 litres per 25 kg bag of material. Mix thoroughly for a minimum of 2 minutes, stay for one minute and mix briefly. Use a low speed electric stirrer (max. 500 rpm).

APPLICATION

After mixing pour out the levelling compound and spread using a smoothing trowel. Even surfaces are easily achieved with a suitable notched trowel. In the case of higher layer thickness, contact with vertical structures should be avoided by putting in a perimeter isolating strip.

CLEANING OF TOOLS

Immediately after use clean tools with water.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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July 2023, Version 01.01

020815030010000484

SikaLevel-102VN-en-VN-(07-2023)-1-1.pdf