

## PRODUCT DATA SHEET

# SikaLevel®-102 (TH)

### POLYMER MODIFIED CEMENTITIOUS FLOOR LEVELLING COMPOUND FOR 2-15 MM

#### DESCRIPTION

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

#### USES

SikaLevel®-102 (TH) can be applied to level floors at a thickness between 2 - 15 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.

#### FEATURES

- 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
- Casein and Formaldehyde free

#### PRODUCT INFORMATION

Composition	Cement
Packaging	25 kg per bag
Appearance and colour	Grey powder
Shelf life	9 months from the date of production
Storage conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions
Maximum grain size	0.5 mm

#### TECHNICAL INFORMATION

Compressive strength	<b>Time</b>	<b>Value</b>	EN 13892-2
	24 hours	> 10.0 N/mm <sup>2</sup>	
	7 days	> 15.0 N/mm <sup>2</sup>	
	28 days	> 20.0 N/mm <sup>2</sup>	
The values are valid at 25°C and 50% rel. humidity.			
Tensile strength	28 days	> 5.0 N/mm <sup>2</sup> (25°C)	EN 13892-2

## APPLICATION INFORMATION

Mixing ratio	5.75 - 6.0 L/25 kg		
Consumption	1.5 kg/m <sup>2</sup> /mm		
Yield	<b>Thickness</b>	<b>Consumption</b>	<b>Yield/25 kg</b>
	2 mm	3 kg/m <sup>2</sup>	cca 8 m <sup>2</sup>
	5 mm	7.5 kg/m <sup>2</sup>	cca 3 m <sup>2</sup>
	10 mm	15 kg/m <sup>2</sup>	cca 1.7 m <sup>2</sup>
	15 mm	22.5 kg/m <sup>2</sup>	cca 1.1 m <sup>2</sup>
Consumption is always depending on the substrate surface's roughness.			
Layer thickness	2-15 mm		
Pot Life	~ 20 min at 25°C		
Waiting time to overcoating	Ready for foot traffic after approx. 3 hours		
Applied product ready for use	Up to 3 mm 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 % rel. humidity, temperature of substrate minimum +15 °C.		

## SYSTEM INFORMATION

System structure	Priming: <ul style="list-style-type: none"><li>▪ Acrylic Primer: Sikafloor®-01 Primer (TH)</li><li>▪ Synthetic Primers: Sikafloor®-161 HC, surface broadcasted with sand grade 0.3–0.8 mm with minimal consumption 3 kg/m<sup>2</sup></li></ul> Primer selection depends on substrate and on layer thickness. <ul style="list-style-type: none"><li>▪ Cracks repairing: Sikadur®-31 CF Normal, surface broadcasted with sand grade 0.3–0.8 mm</li></ul> Please refer to the relevant PDS and method statement before application.
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## 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.

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## FURTHER DOCUMENTATION

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

## IMPORTANT CONSIDERATIONS

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 (TH) must be always protected from damp, condensation and water! When product is applied at low temperature or at non-absorptive sub-

strate, 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, 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

- 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. sulphitewaste adhesives, 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 (25 kg) into a container with the clean water. The water required is between 5.75 and 6.0 liter 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).

If needed, use more than one mixer to ensure the continuous supply of freshly mixed product so that application is carried out without interruption.

## 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 EQUIPMENT

Immediately after use clean tools with water.

## 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.

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### Product Data Sheet

SikaLevel®-102 (TH)

January 2025, Version 03.01  
020815030010000503

SikaLevel-102TH-en-TH-(01-2025)-3-1.pdf