

# PRODUCT DATA SHEET

## Sikafloor®-300 Level

POLYMER MODIFIED CEMENTITIOUS FLOOR LEVELLING COMPOUND FOR 1–10 MM, C30-F7.



### DESCRIPTION

Very low emission, cement based, self levelling compound for all substrates suitable for laying. For interior use. Sikafloor®-300 Level can be characterised as a smooth finish, for medium duty loading, very low shrinkage and with good self levelling properties levelling compound.

### USES

Sikafloor®-300 Level is suitable for filling, smoothing and levelling of suitable substrates before applying parquet, ceramic tiles, seamless resin floors, textile, elastic floor coverings for residential and non-industrial interior areas.

### CHARACTERISTICS / ADVANTAGES

- Self-levelling
- Suitable for application on subfloor heating systems
- Layer thickness up to 20 mm with aggregates
- Suitable for castor wheels loading at a layer-thickness of > 1 mm according to EN 12 529
- Pumpable
- High level of hardness and strength
- Low porosity of the surface
- Very smooth application
- Good grindability
- Polymer modified
- Drying by hydration
- High levelling capacity of surface irregularities
- Low tension

### SUSTAINABILITY

- EC 1 PLUS R: very low emission.

### APPROVALS / STANDARDS

- Cementitious levelling compound CT-C30-F7 according to EN 13813, DoP 115041501, and provided with CE marking.
- Cementitious levelling compound according to EN 13813, classified A1/A1fl according to EN 13501-1, declaration of performance 115041501, assessed by notified laboratory 1378, and provided with CE marking.

### PRODUCT INFORMATION

<b>Chemical base</b>	Cement based, polymer modified
<b>Packaging</b>	25 kg in paper bags
<b>Appearance / Colour</b>	Grey
<b>Shelf life</b>	6 months from the date of production.
<b>Storage conditions</b>	Opened bags should be closed immediately and used up as soon as possible. Do not store below +5 °C.

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	≥30 N/mm <sup>2</sup> (28 days at 23°C)	(EN 13892-2)
<b>Tensile Strength in Flexure</b>	≥7 N/mm <sup>2</sup> (28 days at 23 °C)	(EN 13892-2)

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Sikafloor®-300 Level	~6.3- 6.5 l water per 25 kg Sikafloor®-300 Level
	Sikafloor®-300 Level with aggregates	add 16 kg or 10 L quartz sand 0.1–3.0 mm per 25 kg Sikafloor®-300 Level (~65 % by weight) ≤ 6.5 L water per 25 kg Sikafloor®-300 Level
<b>Consumption</b>	~ 1.5 kg/m <sup>2</sup> /mm	
<b>Layer Thickness</b>	Sikafloor®-300 Level	1–10 mm
	Sikafloor®-300 Level with aggregates	10–20 mm
<b>Ambient Air Temperature</b>	+5 °C min. / +30 °C max.	
<b>Relative Air Humidity</b>	< 75%	
<b>Substrate Temperature</b>	+5 °C min. / +30 °C max.	
<b>Substrate Pre-Treatment</b>	<b>Substrate</b>	<b>Primer</b>
	Normal absorbent substrates such as concrete, cement screeds, rapid cement screeds	Sikafloor®-01 Primer (1:3) or Sikafloor®-03 Primer
	Calcium sulphate substrates <sup>1</sup>	Sikafloor®-03 Primer or Sikafloor®-01 Primer (1:1)
	Non absorbent substrates such primed old water-resistant adhesive residue	Sikafloor®-02 Primer or Sikafloor®-01 Primer
	Wooden OSB and chipboard floor	Sikafloor®-03 Primer or Sikafloor®-01 Primer
	Magnesia screeds (not xylolite)	Sikafloor®-02 Primer

1. If the layer thickness of the Sikafloor®-300 Level exceeds 10 mm prime the calcium sulphate substrate twice with Sikafloor®-155 WN. If Sikafloor®-155 WN is not fully broadcasted with quartz sand (0.2 - 0.8 mm), use Sikafloor®-02 Primer before applying Sikafloor®-300 Level.

<b>Pot Life</b>	~30 min. at +20 °C		
<b>Waiting Time / Overcoating</b>	Sikafloor®-300 Level can be covered as follows		
	<b>Covering</b>	<b>Layer Thickness</b>	<b>Waiting Time</b>
	all kinds of coverings	≤ 5 mm	~24 hours
	all kinds of coverings	≤ 10mm	~48 hours
ceramic coverings (and Sikafloor®-300 Level applied on concrete or cementitious screeds interior)	≤ 20 mm	~3 hours	

All values are approximate and are subject to climatic variation. Values given at 20 °C and 65 % R.H., substrate temperature +15 °C.

When covering Sikafloor®-300 Level always ensure the moisture content has achieved the required value for the product to cover, as the waiting time will vary upon application thickness and ambient humidity. (Refer to the covering product's data sheet).

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- Suitable substrates are: Concrete, cement and rapid cement screeds, calcium sulphate based screeds, ceramic tiles and natural stones, magnesia screeds, mastic asphalt screeds (IC10, IC15 according to EN 13813), screwed wooden constructions OSB and chipboard.

Requirements for the substrate:

- Adequate strength, load bearing capacity, dimensional stability and permanent dryness.
- Must be sound and clean, free of all contaminations, e.g. dust, dirt, oil, grease 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 thorough cleaning.
- Old, loose and weak levelling layers should be removed mechanically.
- Surface treatments or any friable areas of the sub-floor must be mechanically removed and filling of blowholes and voids should be carried out using e.g. Sika® Patch-5.
- Layers of water-soluble adhesives, e.g. sulphite-waste-adhesives, are to be mechanically removed. Remaining adhesive residues should be primed with Sikafloor®-155WN/-156/-160/-161 or Sika® Primer MB. If this primer is not fully broadcasted with quartz sand, Sikafloor®-02 Primer should be used before applying the Sikafloor®-300 Level.
- 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 and sanded.
- Mastic asphalt screeds IC10 and IC 15 according to EN 13813. Sikafloor®-300 Level must have a thickness of 1.5 mm at least and not exceed 3 mm. The mastic asphalt must be fully broadcasted with quartz sand (rough surface). If the surface is smooth (insufficiently broadcasted or old used surface) use primer Sikafloor®-02 Primer or Sikafloor®-01 Primer undiluted before applying Sikafloor®-300 Level.
- Use Sikafloor®-01/-02/-03 Primer one part acrylic primers for a pore free surface with very good adhesion. Please refer the relevant PDS.
- Do not apply on substrates with rising moisture. If rising moisture can occur an effective damp proof membrane must be applied and be in compliance with the relevant national standard.
- Prior to application confirm that wooden OSB and chipboard substrates are firmly fixed and don't move. OSB has to be abraded. Prevent run through of Sikafloor®-300 Level in joints, cracks or holes.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

### MIXING

Add Sikafloor®-300 Level to cold clean water using a clean container and mix for ~2 minutes until a homogeneous mixture has been achieved. Use of a mixer

with disc stirring rod is recommended. After a short maturing time, mix again thoroughly.

Note: Do not mix Sikafloor®-300 Level with cement or other cementitious products.

For extended floor levelling compound: Add the aggregates in the end of the mixing process.

### APPLICATION

- After mixing pour the levelling compound and spread using suitable notched trowel, screed rake or pin-leveller. With the use of a pin-leveller it is usually not necessary to remove trowelling defects with a spikeroller or to level more than once.
- Edge and movement joints must be brought through to the finished surface and should be protected against levelling compound to run in.
- The levelling works should be applied to an adequate thickness and surface flatness as required by the manufacturer of the tile or flooring finish.
- In the case of high layer-thickness, contact with vertical structures should be avoided by placing a perimeter isolating strip.
- If a second layer of levelling compound is to be applied, the first levelling compound layer should be primed with the product Sikafloor®-03 Primer or with Sikafloor®-01 Primer (1:1). The maximum layer thickness may not be exceeded in case of two-layer application. The second layer's thickness should not exceed the first layer's thickness.
- Contact to metal like water bearing pipes must be avoided (e.g. sealing of pipe penetrations), because especially galvanized steel pipes have no sufficient corrosion protection.
- Protect Sikafloor®-300 Level levelling layers during curing from high ambient temperatures, direct sunlight and draughts.

### CLEANING OF TOOLS

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

### FURTHER DOCUMENTS

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

### LIMITATIONS

- Old mastic asphalt screeds IC10 and IC15 (EN 18813) often contain cracks or are embrittled. This substrate does not display sufficient strength for taking a low low-stress cementitious levelling compound. In this case we recommend using stress-free gypsum-levelling compound.
- Use full surface levelling with a minimal layer thickness of 2 mm when covered with parquet.
- Use full surface levelling with a minimal layer thickness of 4 mm when covered with resin flooring systems.

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- Where Sikafloor®-300 Level is to be used with a seamless resin flooring covering we strongly recommend to use resin systems with a minimum thickness of 2 mm. To assure proper preparation and a continuous pore free surface it is advisable to apply a double coat of primer consisting of a roller applied Sikafloor®-03 Primer followed by a second coat of Sikafloor®-161 + 2% Extender T applied as a scratch coat. Inspect the primer for leaving a pore free surface before application of the self levelling body coat the next day. The bond strength of this combination of primers on the Sikafloor®-300 Level will be ~1.0N/mm<sup>2</sup>.
- Wooden substrates in combination with a ceramic covering must be in the form of an unbonded system by using a membrane or insulation layer. For more information consult Sika technical service.
- By German regulations subsequent installation of floor coverings, cement based substrates such as screeds are required to display a residual moisture reading of ≤ 2.0 CM-% (heating screeds ≤ 1.8 CM-%), calcium sulphate screeds should have a reading of ≤ 0.5 CM-% (heating screeds ≤ 0.3 CM-%).

## 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. 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.

## 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.

## 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.

## 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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