

## PRODUCT DATA SHEET

# Sikafloor®-400 Level

DUST REDUCED POLYMER MODIFIED CEMENTITIOUS FLOOR LEVELLING COMPOUND FOR 1-10 MM. C35-F7.

### PRODUCT DESCRIPTION

High quality, dust reduced cement based self levelling compound suitable on all gypsum and cement based substrates in interior areas. Sikafloor® -400 Level is noted for its very low shrinkage. Suitable for castor chair rollers according to EN 12 529.

### USES

Sikafloor®-400 Level is suitable for filling, smoothing, evening and levelling of substrates under textile, elastic and ceramic coverings, for full surface levelling under parquet, layer thickness at least 3 mm. Can be used in combination with elastic Sika adhesives, layer thickness at least 2 mm in interior areas.

### CHARACTERISTICS / ADVANTAGES

- Dust reduced
- For interior use
- Self levelling
- High level of hardness and strength
- Very smooth application
- Suitable for application on subfloor heating systems
- Layer thickness 1-10 mm without aggregates
- Layer thickness 1-25 mm with aggregates
- Drying by hydration
- Can be pumped
- Low tension
- Free of cracks even in thicker layers
- Extendable without loss of strength for higher layer thickness
- Suitable for castor wheels loading with layer thickness more than 1.0 mm according to EN 12 529
- Low porosity surface
- Standard Sikafloor EP primers give excellent bonding to the Sikafloor Level products

### ENVIRONMENTAL INFORMATION

- EC 1 PLUS R: very low emission, regulated.

### APPROVALS / STANDARDS

- C35-F7 according to EN 13813. DoP no. 115041503 provided with the CE-mark.
- A2/A2fl according to DIN EN 13501-1

### 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 floor temperature.

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	Time	Temperature	Value	EN 13892-2
	24 hours	+23°C	>17 N/mm <sup>2</sup>	
	7 days	+23°C	>29 N/mm <sup>2</sup>	
	28 days	+23°C	>39 N/mm <sup>2</sup>	
<b>Flexural Strength</b>	28 days	> 7 Mpa (+20°C)		EN 13892-2

## APPLICATION INFORMATION

<b>Consumption</b>	Approx. 1.5 kg/m <sup>2</sup> /mm.
<b>Pot Life</b>	Approx. 30 min. at +20°C
<b>Waiting Time / Overcoating</b>	<b>Sikafloor®-400 Level can be overcoated as follow:</b> <ul style="list-style-type: none"><li>▪ Up to 5 mm after approx. 24 hours for all kinds of coverings</li><li>▪ For increasing by further 5 mm, each with 24 hours longer drying time (also applicable for extended levelling compound from 10 to 25 mm)</li><li>▪ Up to 10 mm after approx. 24 hours for diffusion permeable and ceramic coverings</li></ul> All values are approximate and are subject to climatic fluctuations. Values given with 20°C and 65 % rel. humidity, temperature of substrate +15 °C.
<b>Applied Product Ready for Use</b>	Ready for foot traffic after approx. 3 hours

## 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.
- Surface treatments or any friable areas of the sub-floor must be mechanically removed and the sub-floor repaired with levelling compounds as required.
- Old, loose and weak levelling layers should be removed mechanically.
- With subsequent installation of ceramic coverings, cement screeds are required to be at least 28 days old and to display a residual moisture reading of  $\leq 2.0$  CM-% (heating screeds  $\leq 2.0$  CM %), calcium sulphate screeds should have a reading of  $\leq 0.5$  CM % (heating screeds  $\leq 0.3$  CM %).
- Layers of water soluble adhesives, e.g. sulphite waste adhesives, are to be mechanically removed. Remaining adhesive residues should be primed with suitable Sika epoxy primer.
- Old water resistant adhesives are to be mechanically removed as thoroughly as possible (minimum 50%).
- Rooms in buildings without a basement must have an affective damp roof membrane and be in compliance with the relevant national standard.
- Old, ceramic coverings and natural stones should be firmly laid, thoroughly cleaned and eventually abraded.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

### MIXING

For 25.0 kg Sikafloor®-400 Level approx. 6.25 - 6.5 l water. Add Sikafloor®-400 Level to cold clean water to form a homogeneous mixture using a clean receptacle. Use of a mixer with disc stirring rod is recommended.

#### Please note:

- **Extended levelling compound:** Max. 6.75 l water for 25.0 kg Sikafloor®-400 Level. The additive is added last.
- **Layer thickness of 10 to 20 mm:** Bulking material approx. 50 wt.% corresponds to half a sack of quartz gravel 0.2 - 0.8 mm for 25.0 kg Sikafloor®-400 Level
- **Layer thickness of 10 to 25 mm:** Bulking material approx. 65 wt.% corresponds to 16.0 kg or 10 l of quartz gravel 0.1 - 3.0 mm for 25.0 kg Sikafloor®-400 Level

### APPLICATION

- After mixing pour out the levelling compound and spread using a smoothing trowel. Even surfaces are easily achieved with a suitable notched trowel. With the use it is usually not necessary to remove trowelling defects or to level more than once.
- In the case of higher layer-thickness, contact with vertical structures should be avoided by putting in a perimeter isolating strip.
- If a second layer of levelling compound is to be applied, the first levelling compound layer should be primed with Sikafloor®-01 Primer (1:1) or with the product Sikafloor®-03 Primer when dry. The maximum layer thickness may not be exceeded in case of two-layer application. The second layer may not exceed the layer thickness of the first.

- Carry out preparatory work - such as filling joints, evening out hollows and unevenness - using a suitable Sika sturdy repair mortar.
- For normal absorbent substrates such as: cement screeds, rapid cement screeds, concrete, prime with Sikafloor®-01 Primer (1:3) or Sikafloor®-03 Primer
- For non-absorbent, smooth, sound substrates such as: mastic asphalt screeds, insufficiently sanded, old water resistant adhesive residues, ceramic tiles, prime with Sikafloor®-01 Primer (neat)
- For calcium sulphate substrates such as: calcium sulphate screeds, prime with Sikafloor®-03 Primer (drying time 60 minutes) or Sikafloor®-01 Primer (1:1) / drying time at least 24 hours). We recommend a two coat subcoat of a suitable Sika Epoxy Primer for layer-thickness exceeding 10 mm.
- For magnesia screeds (not xylonite): prime with Sikafloor®-02 Primer
- For wooden substrates like e.g.: Chipboard or OSB protect against moisture with Sikafloor®-01 Primer (neat), drying time 2 hours

### CLEANING OF TOOLS

Immediately after use clean tools with water.

### FURTHER DOCUMENTS

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

### LIMITATIONS

- Sikafloor®-400 Level contains cement. Alkaline reaction when it comes in contact with moisture, therefore protect skin, eyes and respiratory system. Do not breathe in dust. In case of contact rinse immediately with plenty of water. In case of contact with eyes seek additional medical advice.
- For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
- Protect curing Sikafloor®-400 Level levelling layers from high ambient temperatures, direct sunlight and draughts.
- Contact to metal like water bearing pipes must be avoided (e.g. sealing of pipe penetrations), because especially galvanised steel pipes have no sufficient corrosion protection.

#### **For old vinyl, linoleum and rubber coverings (up to 2.5 mm) please note:**

- The minimum layer-thickness is 3.0 mm.
- Old coverings with cushioned backings are not suitable.
- If high point loads (e.g. hospitals, etc.) are expected, laying on top of old coverings is not recommended.
- Soft old coverings are limited for taking parquet.

### Disposal:

- Empty packaging completely and dispose of in accordance with regulations.
- For the disposal of product residues, waste water and containers with adherent product residues please follow the local governmental regulations.

### VALUE BASE

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.

#### REGULATION (EC) NO 1907/2006 - REACH

Low in chromate according to REACH.

### 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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