

PRODUCT DATA SHEET

Sikacrete® Floor Level

HIGH PERFORMANCE CEMENTITIOUS, SELF LEVELLING, UNDERLAYMENT

DESCRIPTION

Sikacrete® Floor Level is a one part, polymer modified, pumpable self levelling high performance cementitious underlayment for the levelling and smoothing of interior floors prior to the application of the final floor finish such as ceramic tiles, carpets, parquet / wood floors, vinyl, etc.

USES

Sikacrete® Floor Level is used for surface levelling of new floor or floor renovation, at high rise building, exhibition hall, auditorium, mall, residential, etc. For indoor use only.

CHARACTERISTICS / ADVANTAGES

- Fast application because of the very good flow and cohesion of the fresh product
- Very good bond and high mechanical strengths
- Very good surface appearance and hardness
- Capable of levelling surfaces with 3–20 mm thickness. (up to 20 mm with added aggregate, max. 20 %)

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance / Colour	Powder / Light grey
Shelf Life	6 months from date of production
Storage Conditions	Store properly in undamaged and unopened, original sealed packaging, in dry conditions. Protect from direct sunlight, rain and water.
Density	~1.46 kg/l

TECHNICAL INFORMATION

Compressive Strength	28 days	~35 N/mm ²	(ASTM C-109)
Tensile Strength in Flexure	28 days	~6 N/mm ²	(ASTM C-348)
Tensile Adhesion Strength	28 days	~1.5 N/mm ² (concrete failure)	

APPLICATION INFORMATION

Mixing Ratio	Water : Sikacrete® Floor Level = 3.5 - 4.5 L : 25 kg bag
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Fresh Mortar Density	~2.17 kg/l	
Consumption	~1.9 kg/m ² per mm thickness	
Layer Thickness	Minimum	3 mm
	Maximum	20 mm (with added aggregates, max. 20 %)
	Note: By adding aggregates, the flow of Sikacrete® Floor Level may be reduced. It is recommended to carry-out site trials to determine the characteristics of Sikacrete® Floor Level (after addition of aggregates) meets the requirement of the project.	
Ambient Air Temperature	+5 °C min. / +35 °C max.	
Substrate Temperature	+5 °C min. / +35 °C max.	
Substrate Pre-Treatment	<p>Priming SikaLatex® : cement (1 : 1 pbw) can be used to ensure sealing of the substrate to prevent the appearance of bubbles on the underlayment surface and improve the bond to the substrate. For more information please refer to SikaLatex® Product Data Sheet or contact Sika's Technical Service Department.</p>	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The concrete surface must be sound, has a sufficiently rough texture, dry and free of all contaminants e.g. dirt, oils, grease, coatings and surface treatments, etc. The concrete substrate must be prepared mechanically, eg. using a grinding machine or shotblasting machine. The dust must be removed with a vacuum cleaner.

The concrete substrate must have sufficient compressive strength (min. 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².

New concrete should be at least 14 days old before applying Sikacrete® Floor Level.

MIXING

Only mix full bag. When mixing place the pre-measured clean water into a mixing vessel and gradually add the dry powder.

Mix thoroughly for a minimum of 3 minutes until a uniform and homogenous mix is achieved. Use a paddle attached to an electric stirrer (< 500 rpm).

APPLICATION

Pump

Use a conventional floor screed dual-stage mixer and pump and control the water dosage to achieve the required flow. After placing onto the primed surface, use a pin rake to level the material to the required thickness. Then, use a spike roller to roll in two directions (perpendicular to each other) to remove entrapped air.

Manual

Pour the mixed material onto the primed surface and use a pin rake to level the material to the required thickness. Then, use a spike roller to roll in two directions (perpendicular to each other) to remove entrapped air.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- Protect Sikacrete® Floor Level from direct sunlight for at least 24 hours.
- Do not wet Sikacrete® Floor Level surface until it has set.
- Surface cracking may occur due to curing conditions. Avoid over-trowelling and do not sprinkle water onto the surface while Sikacrete® Floor Level is still fresh.
- For large areas, provide control joints.
- Do not exceed the recommended water for mixing.
- Not suitable for slopes > 0.5 %.
- Very absorbent substrates must be saturated with water or primed to prevent loss of the mixing water into the substrate, which can cause problems such as shrinkage, the appearance of surface pores or weak and dusty surfaces, etc.
- Sikacrete® Floor Level does not provide an aesthetic finish. Product must always be overcoated.

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.

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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