

Sikacrete® Floor Level

High performance cementitious, self levelling, underlayment

Product Description	Sikacrete® Floor Level is a 1-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, vynil, etc.
Uses	Sikacrete® Floor Level can be applied manually or by pump to level floors. Sikacrete® Floor Level used for surface levelling of new floor or floor renovation, at high rise building, exhibition hall, auditorium, mall, residential, etc.
Characteristics / Advantages	<ul style="list-style-type: none">■ 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 from min. 3 mm to max. 20 mm (up to 20 mm with added aggregate, max. 20%)

Product Data

Colour / Form	Light grey powder
Packaging	25-kg bag
Storage Conditions / Shelf-Life	12 months from date of production if stored properly in undamaged and unopened, original sealed packaging, in dry conditions. Protect from direct sunlight.

Technical Data

Density	Dry: 1.46 kg/l	Wet: 2.17 kg/l
Layer Thickness	Minimum: 3 mm	Maximum: 20 mm (up to 20 mm with added aggregates, max. 20%)

Mechanical / Physical Properties

Compressive Strength	> 35 N/mm ² (28 days)	(ASTM C-109)
Flexural Strength	> 6 N/mm ² (28 days)	(ASTM C-348)
Bond Strength	> 1.5 N/mm ² (28 days; concrete failure)	

Construction



System Information

Application Details

Consumption / Dosage Water dosage: 3.5 – 4.5 litre / 25-kg bag.
Consumption: 1.9 kg/m² per mm thickness

Substrate Preparation The 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 using grinding machine, vacuum cleaner, etc.
The concrete substrate must have a 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.

Application Instructions

Priming SikaLatex® with cement = 1 : 1 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.
Sikacrete® Floor Level shall be applied after the primer on wet-on-wet condition.

Mixing When mixing manually add the dry powder (25 kg) into a container with the clean water.
Mix thoroughly for a minimum of 3 minutes until a uniform mix is achieved. Use an electric stirrer (< 500 rpm).

Application Method / Tools

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 apply by trowel or pin screed rake to the required thickness. Use spike roller to thoroughly roll in two directions to remove any entrapped air.

Manual:

Pour the mixed material onto the primed surface and apply by trowel or pin screed rake to the required thickness. Use spike roller to thoroughly roll in two directions to remove any entrapped air.

Curing Protect the applied area from direct sunlight for at least 12 hours.
Do not wet the surface until setting.
Surface cracking may occur due to curing conditions, avoid over-trowelling, over-watering and control joint configurations.

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

Setting Time Initial: ~ 6.5 hours Final: ~ 7 hours

Notes on Application / Limitations Do not exceed the recommended water dosage. Do not add more water when the product is starting to set. 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.
Does not provide an aesthetic finish. Product must always be overcoated.

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.

Health and Safety Information

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.

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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