BUILDING TRUST

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 cementitous 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 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.

FEATURES

- 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 and colour	Powder / Light grey	
Shelf life	12 months from date of production	
Storage conditions	Store properly in undamaged and unopened, original sealed packaging, in dry conditions. Protect from direct sunlight.	
Density	Dry Wet	~1.46 kg/L ~2.17 kg/L

TECHNICAL INFORMATION

Compressive strength	28 days	~35 N/mm²	(ASTM C-109)
Flexural-strength	28 days	~6 N/mm²	(ASTM C-348)
Tensile adhesion strength	28 days = ~1.5 N/mm² (concrete failure)		

APPLICATION INFORMATION

Mixing ratio	Water : Sikacrete® Floor Level = 3.5 - 4.5 L : 25 kg bag
Consumption	~1.9 kg/m² per mm thickness

Layer thickness	Minimum	3 mm
	Maximum	20 mm (with added aggregates, max. 20 %)
Ambient air temperature	+5 °C min. / +35 °C max.	
Substrate temperature	+5 °C min. / +35 °C max.	
Substrate pre-treatment	**Priming** SikaLatex® with 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 Technical Service Department.	

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- 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 and overwatering, and control joint configurations.
- 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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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.

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

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.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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