

PRODUCT DATA SHEET

SikaLevel[®]-118

HIGH FLOWABILITY, SELF LEVELLING CEMENTITIOUS UNDERLAYMENT

DESCRIPTION

SikaLevel[®]-118 is a one part, polymer modified, pumpable self levelling cementitious underlayment for the levelling and smoothing of interior floors prior to the application of the final floor finish such as carpets, parquet / wood floors, vinyl, ceramic tiles, etc.

USES

SikaLevel[®]-118 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
- Good bond and mechanical strengths
- Good surface appearance and hardness
- Suitable for application at thicknesses ranging from 3 to 8 mm

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance and colour	Powder / Light grey (natural mortar appearance)
Shelf life	9 months from date of production
Storage conditions	Store properly in undamaged and unopened, original sealed packaging, in dry conditions between +10 °C - +35 °C. Protect from direct sunlight.
Density	Mixed : ~2.00 kg/L at ~+25 °C

TECHNICAL INFORMATION

Compressive strength	28 days	~18 N/mm ²	(ASTM C-109)
Tensile adhesion strength	28 days	>1.0 N/mm ² (substrate failure)*	(ASTM C1583/C1583M)
Note: * by using Sika-floor [®] -01 Primer ID as primer layer			

APPLICATION INFORMATION

Mixing ratio	Water : SikaLevel [®] -118 = ~5 to 5.25 L : 25 kg bag (20 – 21 % by weight of powder) depending on desired consistency
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Consumption	~2.0 kg/m ² per mm thickness	
Layer thickness	Minimum	3 mm
	Maximum	8 mm
Ambient air temperature	+5 °C min. / +35 °C max.	
Substrate temperature	+5 °C min. / +30 °C max.	
Substrate pre-treatment	Priming Sikafloor®-01 Primer ID must 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. Please observe the primer's waiting time. For more information, please refer to Sikafloor®-01 Primer ID 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

- Compliance with flat floor requirements requires appropriate application techniques and execution, and cannot be achieved solely through material selection. Please contact Sika for further information.
- SikaLevel®-118 is formulated specifically for light-duty, non-trafficable floor surfaces.
- A seamless finish can be achieved if a "wet" edge is maintained during application. Please conduct a trial to observe workability/pot life performance.
- Protect the applied area from direct sunlight for at least 24 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 %.
- For highly absorbent substrates, applying an additional primer coat is strongly recommended. This prevents the substrate from absorbing the mixing water, which can lead to shrinkage, surface pores, or a weak, dusty finish.
- Does not provide an aesthetic finish. The product must always be overcoated or covered with an additional layer. Before applying any floor covering on top of SikaLevel®-118, please ensure that the substrate meets the required moisture content specifications.
- The concrete substrate must be mechanically prepared using a grinding machine, sanding with fine abrasive paper, or other suitable equipment. Clean the surface using appropriate equipment (e.g., a vacuum cleaner).
- Please be informed, do not use spike shoes during any coating application on the top of green substrate SikaLevel®-118. Ensure the SikaLevel®-118 has fully cured at least 28 days or >18 N/mm².

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 or sanding using fine abrasive paper or other suitable equipment, vacuum cleaner, etc.
- The concrete substrate must have a sufficient compressive strength (min. 18 N/mm²) with a minimum pull off strength of 1.0 N/mm².
- New concrete should be at least 14 days old before applying SikaLevel®-118.

MIXING

When mixing manually by hand mixer, add the dry powder (25 kg) into a container with the clean water. Mix thoroughly for a 2 - 3 minutes until a uniform mix is achieved. Use an electric stirrer (< 500 rpm).

APPLICATION

Pour the mixed material onto the primed surface and apply by pin screed rake or trowel or screed levelling beam to the required thickness. Please ensure that the primer waiting time is observed (minimum 4 hours and maximum 48 hours at +30 °C).

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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Product Data Sheet

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