

PRODUCT DATA SHEET

Sikafloor® Level-25 K

CEMENTITIOUS SELF-LEVELLING INDUSTRIAL SUB-FLOOR SCREED

DESCRIPTION

Sikafloor® Level-25 K is a one part, polymer modified, pumpable self-levelling cementitious industrial grade screed.

USES

Sikafloor® Level-25 K is a versatile and durable sub-floor cementitious screed which can be applied manually or by pump to achieve rapid, flat, economic substrate levelling prior to the application of the final floor finish.

Typical uses are in warehouses, factories, manufacturing facilities, hospitals, commercial buildings, even residential and domestic properties etc.

CHARACTERISTICS / ADVANTAGES

- Self smoothing and highly fluid
- Pumpable or manual application
- Rapid drying
- 4 hour walk on time (approx. at +20°C)
- Excellent underlay for resin flooring, tiles and sheet systems
- Low odour
- Protein free
- Casein and Formaldehyde free
- Suitable for use with under floor heating systems

PRODUCT INFORMATION

Composition	Polymer modified Portland cement.		
Packaging	25kg bags		
Appearance / Colour	Light-grey Powder / Natural Grey, Light Grey, Green, Red		
Shelf life	6 months from date of production.		
Storage conditions	stored properly in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C.		
Density	2.15 kg/l		
Abrasion Resistance	< 0.15 mg / mm ² (KS F 4041)		
Compressive Strength	Time	Temperature	Value (KS F 4041)
	24 hours	20 °C	> 25 N/mm ²
	28 days	20 °C	> 40 N/mm ²
Tensile Strength in Flexure	28 days	> 8 N/mm ² (+ 20 °C) (KS F 4041)	
Tensile Adhesion Strength	28 days	> 1.5 N/mm ² (+ 20 °C) (KS F 4041)	

SYSTEMS

System Structure	Primers :	
	Sikafloor® - 155WN, SikaTop-77D	Normal requirements
	Sikafloor® -161 + sand (0.6~1.2mm)	Higher requirements
	Self-levelling compounds:	
	Sikafloor® Level-25 K	Self levelling compound
	Sealers / Coats :	
	Sikafloor® Proseal -22	Sealer
	SikaFloor- product range	EP Coating Systems
Mixing Ratio	5~5.5 L water	
Consumption	~ 1.8 kg/m ² /mm	
Layer Thickness	5 - 25 mm	
Ambient Air Temperature	≥ +10 °C and ≤ +30 °C	
Relative Air Humidity	≤ 80%	
Substrate Temperature	≥ +10 °C and ≤ +30 °C	
Pot Life	Temperature	Time
	+10 °C	~ 30 minutes
	+20 °C	~ 20 minutes
	+30 °C	~ 15 minutes
Waiting Time / Overcoating	Ambient Temperature	+ 20 °C
	Foot traffic	~4 hours
	Lightly serviceable	~1 day
	Fully serviceable	~7 days
Times are approximate be affected by changing substrate and ambient conditions, particularly temperature and relative humidity. Make sure the moisture content has achieved the required value for the application of the coating product.		

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (min. 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The surface must be clean, dry and free of all contaminants e.g. dirt, oils, grease, coatings and surface treatments etc.
- If in doubt apply a test area first.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- If to be sealed with an impervious material, ensure that an effective damp proof membrane is in place before installation of Sikafloor® Level-25 K.
- Repairs to the substrate, filling of blowholes/voids

must be carried out using appropriate products from the Sika Patch®, Sika Level®, Sikafloor® or Sikadur® range of materials.

- **Dewpoint:** Beware of condensation!
The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation, blooming or laitance on the floor finish.
- Prime the substrate using the appropriate primer, and if broadcasting quartz sand, ensure full blinding of the wet primer, without any bald spots. Remove any excess or loose sand from the surface when cured.
- Acrylic primer such as Sikatop® - 77D can be used on good substrates.
- Poor or weak substrates must be primed with Sikafloor®-161. These epoxy resin based primers must all be fully broadcast with quartz sand 0.6 ~ 1.2 mm.
- For all of the ancillary products, please refer to their relevant PDS.

MIXING

Add the dry powder Sikafloor® Level-25 K into a mixing container with clean water.
The water amount must be between 5.0 - 5.5 l per 25 kg of material.

Mix thoroughly for a minimum of 3 minutes by the use of a low speed electric stirrer (300 - 400 rpm). When overcoating with a Sikafloor® resin, the ratio must be 5 l per 25 kg of material. When overcoating with a tile or sheet flooring system, 5.5 l per 25 kg of material can be used. Leave material to stand in container until the majority of air bubbles have dispersed.

APPLICATION

Manual:

Pour the mixed material Sikafloor® Level-25 K onto the primed surface and apply by trowel or pin screed rake to the required thickness. Thoroughly spike roll in two directions to remove any entrapped air.

Pump:

Use a conventional floor screed dual stage mixer and pump and control the water dosage to achieve the following flow, measuring the final average diameter on a flat, clean, dry flow table. After placing onto the primed surface apply by trowel or pin screed rake to the required thickness. Thoroughly spike 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.

IMPORTANT CONSIDERATIONS

- Freshly applied Sikafloor® Level-25 K must be protected from damp, condensation and water for at least 24 hours.
- Do not exceed the recommended water dosage.
- Temperatures below +20°C extend the drying times.
- Sikafloor® Level-25 K does not provide an aesthetic finish. Product must always be overcoated.
- Do not use Sikafloor® Level-25 K in areas where it can be exposed to dampness, such as underground floors without an effective damp proof membrane, or outdoors without suitable watertight overcoating and underside membrane.
- Make sure the primer is fully blinded with aggregate and no "bald patches" remain.
- Make sure the Sikafloor®-155 WN primer is between two and a half to four hours old (at +20°C) when applying the Sikafloor® Level-25 K without broadcasting over the primer. Always apply over a previously scabbed substrate.

- Not suitable for slopes or inclines > 0.5%.
- Protect from direct sunlight, hot or strong winds and extremes of temperature to avoid cracking or crazing.
- When overcoating with Sikafloor® resins, additional mechanical preparation may be required to remove any laitance which may have formed during application.
- For sections > 12 mm thickness, to achieve maximum aesthetics and optimum deaeration with the spiked roller, use a ~ 5 mm top layer.
- If a clear coating is to be used or the screed is to be left unsealed (not recommended) a coloured grade can be used.
- When overcoating Sikafloor® Level-25 K ensure the moisture content has achieved the required value for the coating product, as times will vary with application thickness and ambient humidity. (Refer to the top coat product data sheet)
- For occasional exposure (wet cleaning), protection can also be provided with two coats Sikafloor®-2540 W.
- In all circumstances proper sealing of joints with other construction elements (walls, columns) and expansion joints using e.g. Sikaflex® Pro-3WF must be ensured to prevent any ingress of water into Sikafloor® Level-25 K.

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.

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 the exact product data and uses.

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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