BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-30 Level (PK)

High Performance, Self Levelling And Fast Drying, Cementitious Screed For Interior Or Exterior, In 4 - 30 mm Thickness

DESCRIPTION

Sikafloor®-30 Level (PK) is a polymer modified, pump-able, self levelling fast drying cementitious screed for higher thickness interior or exterior floors. Suitable for use in hot and tropical climatic conditions.

USES

- Sikafloor®-30 Level (PK) is a floor self levelling screed to level or smooth screeds and concrete floors at a thickness between 4 to 30 millimeters in one working step.
- Sikafloor®-30 Level (PK) is useable as screed for industrial service conditions when sealed with a PU or EP resin topcoat from medium to high load (heavy traffic and forklift pallet truck with impact load).
- Under interior low load service conditions, the Sikafloor®-30 Level (PK) can be used without a topcoat.
- Sikafloor®-30 Level (PK) is also suitable for filling, smoothing and levelling of suitable substrates before applying parquet, ceramic tiles, seamless resin floors, textile, elastic floor coverings.
- Sikafloor®-30 Level (PK) is useable as screed for exterior areas when sealed with an waterproofing layer.

CHARACTERISTICS / ADVANTAGES

- Self-smoothing and highly fluid
- Easy to place by pump or manual application
- Ready for use
- Low shrinkage
- Maintains good workability and joint healing
- Fast setting and drying
- 3 - 4 hours walk on time (+35 °C)
- Good surface appearance and hardness
- Casein and Formaldehyde free
- Suitable for use with under floor heating systems

PRODUCT INFORMATION

Chemical Base	Polymer Modified Rapid Hardening Cement
Packaging	25 kg bags
Shelf Life	6 months from date of production if stored properly in original, unopened and undamaged sealed packaging.
Storage Conditions	Store properly in original, unopened, and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight, heat and moisture.
Bulk Density	~1.25 kg/L

TECHNICAL INFORMATION

Compressive Strength	(W/P = 0.21)		(ASTM C109)
	Time	Temperature	Value
	1 Day	+20 °C	≥ 20 N/mm²
	28 Days	+20 °C	≥ 35 N/mm²
Tensile Strength in Flexure	(W/P = 0.21)		(ASTM C580)
	Time	Temperature	Value
	1 Day	+20 °C	≥ 14 N/mm²
Tensile Adhesion Strength	(W/P = 0.21)		(EN 12188)
	Time	Temperature	Value
	1 Day	+20 °C	≥ 1.5 N/mm²

APPLICATION INFORMATION

Mixing Ratio	5 to 5.75 L water for 25 kg bag
Consumption	~1.8 kg/m²/mm This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.
Layer Thickness	4 - 30 mm
Ambient Air Temperature	+8 °C min. / +35 °C max.
Relative Air Humidity	< 75 %
Substrate Temperature	+8 °C min. / +35 °C max.

Pot Life	

Temperature and Relative Humity	Time
+35 °C / 50 %	~30 min

The temperature will affect the pot life.
Application at temperatures above +35 °C will reduce the pot life and the working time. Temperatures below +35 °C will increase the pot life and extend the working time.

Waiting Time / Overcoating

Suitable for overcoating with impermeable or moisture sensitive coatings after:
- Layer thickness up to 15 millimeters: 24 hours*
- Layer thickness up to 30 millimeters: 48 hours*

Suitable to be covered with ceramic covering after approximately 24 hours. It is recommended to overcoat Sikafloor®-30 Level (PK) within 7 days.
* Times are approximate.
When overcoating Sikafloor®-30 Level (PK) always ensure the moisture content has achieved the required value for the coating product, as the waiting time will vary with the application thickness and ambient humidity (Refer to the Coating Product Data Sheet).

Applied Product Ready for Use

At +35 °C and 50 % Relative Humidity

Foot traffic	~3 h
Lightly serviceable	~24 h

Note: Times are approximate and will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity.

Fresh mortar density

~2.0 kg/L

SYSTEM INFORMATION

System Structure

PRIMING:
High loads intended use of the floor: Priming with epoxy resins such as Sikafloor®-161 fully broadcast with quartz sand aggregate from 0.3 to 0.7 millimeters.
Normal intended use of the floor (only interior areas): The one-part acrylic primer Sikafloor®-01 Primer is recommended for a pore free surface with very good surface adhesion. Please refer to the relevant Product Data Sheet for the recommended application details.
LEVELLING:
Apply to the required thickness from 4 to 30 millimeters.
SEALER, COATINGS AND ADHESIVES:
Various Sikafloor® EP and PU coatings SikaCeram® product range for tile adhesives Various Sikalastic® products
For more information please contact Sika Technical Department.

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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (> 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 example dirt, oils, grease, coatings and surface treatments etc.
- If in doubt apply a test area first.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- Cement laitance, paints or other surface treatment agents must be completely removed.
- Suitable methods for surface preparation are high pressure water jetting or abrasive blast cleaning.
- Other pretreatments such as scarifying, milling, etc. must necessarily another post with a Jet/blast method to eliminate the remaining structural faults, this to remove cement laitance and achieve an open and sound textured surface.
- Prerequisite for a good bond between the substrate and levelling screed is an appropriate roughness of the substrate. The mean surface roughness should be as large as possible, but at least 1 millimeter.
- Repairs to the substrate, filling of blowholes/voids must be carried out using appropriate products from the SikaTop®, Sika® MonoTop®, Sikafloor®, SikaDur® and Sikagard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.
- 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.
- A suitable primer needs to be used.
- High mechanical forces on the floor, a floor placed on soil or poor weak substrates must be primed with Sikafloor® -161 fully broadcast with quartz sand from
- 0.4 to 0.7 millimeter. Remarks: quartz sand not applied in excess and grains must not be fully sealed with the resin.
- Do not apply on substrates with rising moisture. If rising moisture can occur an effective damp proof membrane must be applied and be in compliance with the relevant national standard.

MIXING

Add cold water according to the desired consistency into a clean mixing vessel before slowly adding the Sikafloor®-30 Level (PK) powder. Sikafloor®-30 Level (PK) should be mixed by using low speed electric mixer (approximate 300 to 400 rpm), recommended is the use of a double disc stirring paddle or spiral mix paddle for 3 minutes or until the mix is free of lumps.
After mixing leave the material to stand in the container for approximately 2 minutes until majority of air bubbles have dispersed. In case of higher water temperature, the water could be cooled down by using clean ice. Note: Do not mix Sikafloor®-30 Level (PK) with cement or other cementitious product. Do not add extra water or other ingredients. Mix only full bags for best results.

APPLICATION

Pour the mixed material onto the primed surface and apply by trowel or pin screed rake to the required thickness. Roll thoroughly with a spiked roller in two directions to remove any entrapped air. Best application time would be during falling temperatures.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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