

SYSTEM DATA SHEET

Sikafloor® PurCem® HB-21

Heavy duty, light textured polyurethane cement hybrid flooring system

DESCRIPTION

Sikafloor® PurCem® HB-21 is a light textured coloured flooring screed suitable for areas subject to high temperature shocks and heavy loading, abrasion and chemical exposure. Sikafloor® PurCem® HB-21 is based on polyurethane cement technology and is part of the Sikafloor® PurCem® flooring range.

USES

Sikafloor® PurCem® HB-21 may only be used by experienced professionals.

The System can be used in industrial buildings such as:

- Chemical and processing facilities
- Food and beverage facilities
- Catering and industrial kitchens
- Manufacturing facilities and workshops
- Mining and metal processing facilities
- Recycling plants

Please note:

- The System may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- High abrasion resistance
- Good resistance to specific chemicals
- Easy to clean and maintain
- Good impact resistance
- Good slip resistance
- Seamless and hygienic
- Tolerant to substrates with high moisture content

APPROVALS / STANDARDS

- Slip resistance test DIN 51130, Roxeler, No. 020070-21-11

SYSTEM INFORMATION

System Structure	Layer	Product
	1. (Optional) Primer or scratch coat	Sikafloor®-21 PurCem® Sikafloor®-24 PurCem® or Optional primers before scratch coat: Sikafloor®-151 Sikafloor®-161 + quartz sand 0.4–0.8 mm broadcast in excess. Refer to the individual Product Data Sheets. For further information, contact Sika Technical services
	2. Wearing layer + Broadcast in excess	Sikafloor®-21 PurCem® quartz sand 0.3–0.8 mm
	3. Seal coat or top coat	Sikafloor®-31 PurCem®
Composition	Water-based polyurethane cement hybrid	
Appearance	Cured system appearance	Light textured matt finish
Colour	Cured system colour	Pebble Grey, Beige, Golden Yellow, Dusty Grey, Carmine Red, Agate Grey, Marine Blue, Yellow Green
Nominal thickness	4 mm to 9 mm	

TECHNICAL INFORMATION

Compressive Strength	Cured 28 days at +23 °C	> 50 N/mm ²	(EN 13892-2)
Tensile Adhesion Strength	≥ 2.5 (2.0) N/mm ²		(EN 1542)
Reaction to Fire	Class B _{fl} -s1		(EN 13501-1)
Chemical Resistance	Refer to the chemical resistance of Sikafloor®-31 PurCem®		
Skid / Slip Resistance	Class	R 11	(DIN 51130)
Service Temperature	System thickness	Minimum	Maximum
	4 mm	-15 °C	+70 °C
	6 mm	-25 °C	+80 °C

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	(Optional) Primer or scratch coat	Sikafloor®-21 PurCem® Sikafloor®-24 PurCem®	~3 kg/m ²
	Wearing layer + Broadcast in excess	Sikafloor®-21 PurCem® quartz sand 0.3–0.8 mm	~1.9 kg/m ² per mm thickness ~4–5 kg/m ²
	Seal coat or top coat	Sikafloor®-31 PurCem®	~0.6–0.8 kg/m ²
Ambient Air Temperature	Minimum	+10 °C	
	Maximum	+35 °C	
Relative Air Humidity	Maximum	80 %	

Dew Point	Refer to the individual Product Data Sheet.			
Substrate Temperature	Minimum	+10 °C		
	Maximum	+35 °C		
Substrate Moisture Content	Refer to the individual Product Data Sheet. Note: Epoxy primers are not suitable for application onto a high substrate moisture content.			
Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure
	+10 °C	~36 hours	~72 hours	~7 days
	+20 °C	~12 hours	~48 hours	~3 days
	+30 °C	~7 hours	~36 hours	~2 days
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.				

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.

FURTHER DOCUMENTS

- Sikafloor® PurCem® Method Statement
- Sika® Method Statement Mixing and Application of Flooring Systems
- Sika® Method Statement Surface Evaluation & Preparation
- Sikafloor® PurCem® Product Data Sheets

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.

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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