

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

SUSTAINABILITY

DGNB – New buildings and extensive renovations, version 2020 2.0.0 :

The system is assessed to meet requirements for indicator 20, quality level 4, according to criteria matrix for ENV1.2/Environmentally hazardous substances. Documented by technical datasheets, safety data-sheets and emission certificates.

Click here for more information:

[Sikafloor®-21 PurCem®](#)

[Sikafloor®-31 PurCem®](#)

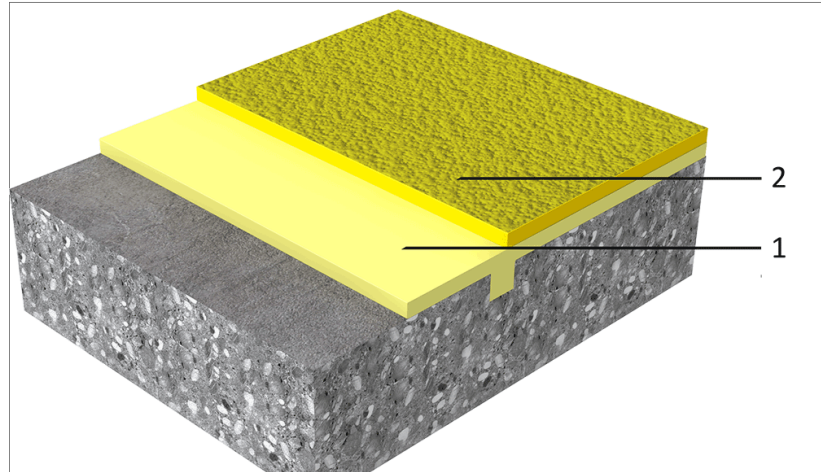
APPROVALS / CERTIFICATES

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

SYSTEM INFORMATION

System structure

Sikafloor® PurCem® HB-21



Layer	Product
1. (Optional) Primer or scratch coat	Sikafloor®-21/24 PurCem®
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 INFORMATION

- 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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