

SYSTEM DATA SHEET

Sikafloor® PurCem® HB-21 Gloss

LIGHT TEXTURED, BROADCAST, GLOSS FINISH POLYURETHANE CEMENT HYBRID FLOORING SYSTEM

PRODUCT DESCRIPTION

Sikafloor® PurCem® HB-21 Gloss is an industrial flooring system based on polyurethane cement hybrid technology and is part of the Sikafloor® PurCem® Gloss system range.

Sikafloor® PurCem® HB-21 Gloss build-up consists of a basecoat, into which an aggregate layer is broadcast to provide anti-slip properties. The system is completed with a glossy, scratch resistant topcoat.

Sikafloor® PurCem® HB-21 Gloss withstands chemical attack and has good abrasion and impact resistance. Due to its gloss, scratch resistance and impervious surface, the floor is hygienic, easy to clean and maintain.

- Very good life cycle cost performance

USES

Sikafloor® PurCem® HB-21 Gloss installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

- Food and beverage industry
- Processing and chemical industry
- Parking decks
- Ramps
- Kitchens
- Basements
- Laboratories
- Back of house areas

CHARACTERISTICS / ADVANTAGES

- High mechanical resistance
- Good chemical resistance
- Glossy and scratch resistant surface
- Low dirt pick up
- Easy to clean and maintain
- Seamless
- Anti-slip surface
- Tolerant to moisture in the substrate

ENVIRONMENTAL INFORMATION

- Conforms to AgBB (2012) for use in indoor environments. Test report No. 392-2014-00018201A_02. Eurofins Product Testing.

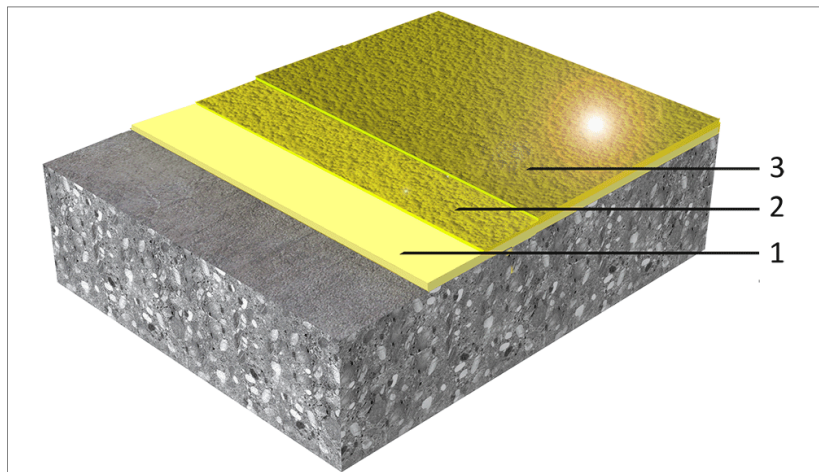
APPROVALS / STANDARDS

- Screed material for floor screeds according to EN 13813:2002, provided with the CE mark.
- Food Industry Approval. Certificate of Compliance to be used safely as a floor coating in food sectors. Short term contact of the coating with food stuffs is safe as long as any hygienic regulations are not violated. Report No. 39438U15. ISEGA Forschungs- und Untersuchungs-Gesellschaft mbH.
- Taint potential. Report No. S/REP/134217/2 Campden BRI (Chipping Campden) Ltd.
- Cleanability: Clean Room Suitable Material (Riboflavin test). Test report SI 1501-752, Sikafloor® -310 PurCem® with QS 0,4...0,8 mm. Fraunhofer Institute for Manufacturing and Engineering and Automation IPA.
- Fire classification report according to EN 13501-1:2007 + A1:2010. Test report No. 15/9284-342 Parte 1. Applus LGAI.

SYSTEM INFORMATION

System Structure

Sikafloor® PurCem® HB-21 Gloss



Layer	Product
1. Scratch coat (optional)	Sikafloor®-21/-210/-260 PurCem®
2. Base coat	Sikafloor®-21/-210/-260 PurCem® + Aggregate broadcast 0.3–0.8 mm
3. Top Coat	Sikafloor®-310 PurCem®

As optional primers Sikafloor®-155 W/-156/-161 + quartz sand 0.3–0.8 mm broadcast to excess can be used. Please refer to the individual Product Data Sheet.

Composition	Water-based polyurethane cement hybrid
Appearance	Light textured, gloss finish
Colour	Beige, Dusty Grey, Grass Green, Maize Yellow, Night Blue, Oxide Red, Pebble Grey, Tele Grey 2
Nominal Thickness	~ 4-6 mm
Volatile organic compound (VOC) content	Very low content of Volatile Organic Compounds. It fulfils the stringent demands for indoor air quality and low VOC emitting products AFFSET, M1 Gold, AgBB, EMICODE and A+.

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TECHNICAL INFORMATION

Water Absorption	0 %	(CP BM2/67/2)
Shore D Hardness	~ 80	(ASTM D 2240)
Abrasion Resistance	<2000 mg (CS 22/1000/1000) (7 days / +23°C)	(DIN 53 109)
Compressive Strength	>50 N/mm ² after 28 days at +23°C / 50% r.h.	(BS EN 13892-2)
Tensile Strength	>15 N/mm ² after 28 days at +23°C / 50% r.h.	(BS EN 13892-2)
Tensile Adhesion Strength	> 2.0 N/mm ²	(EN 1542)
Reaction to Fire	B _{fl} -s1	(EN 13501-1)
Chemical Resistance	Please refer to Sikafloor® PurCem® Gloss chemical resistance guide. Contact Sika technical service for specific information.	
Thermal Resistance	4 mm -10 °C to +60 °C	6 mm -20 °C to +70 °C
Capillary Absorption	< 0.01 kg/(m ² h ^{0.5})	(EN 1062-3)
Skid / Slip Resistance	R10/V4 77/Wet (Pendulum Test)	(DIN 51130) (DIN EN 13036-4)

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption	
	1. Scratch coat (optional)	Sikafloor®-21/-210/-260 PurCem®	~1.0-3.0 kg/m ²	
	2. Base coat	Sikafloor®-21/-210/-260 PurCem® + Aggregate broadcast 0.3–0.8 mm	~1.9 kg/m ² /mm ~4–5 kg/m ²	
	3. Top coat	Sikafloor®-310 PurCem®	~0.6–0.8 kg/m ²	
Consumptions are theoretical and do not include any wastage or additional materials needed due to porosity, substrate profile etc.				
Product Temperature	Please refer to the individual Product Data Sheets			
Ambient Air Temperature	+10 °C min / +35 °C max			
Relative Air Humidity	80 % max			
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or other disturbance of the surface on the floor finish.			
Substrate Temperature	+10 °C min / +35 °C max			
Substrate Moisture Content	Sikafloor® PurCem® HB-21 Gloss can be installed on substrates with higher moisture content. The substrate needs to be visibly dry and have an adequate pull-off strength min 1.5 N/mm ² . No ponding water. Check for rising moisture.			
Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure
	+10 °C	~ 36 hours	~ 48 hours	~ 7 days
	+20 °C	~ 18 hours	~ 22 hours	~ 3 days
	+30 °C	~ 12 hours	~ 16 hours	~ 2 days
Note: Times are approximate and will be affected by changing ambient and substrate conditions				

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BUILDING TRUST



Packaging Please refer to the individual Product Data Sheets

Shelf Life Please refer to the individual Product Data Sheets

Storage Conditions Please refer to the individual Product Data Sheets

MAINTENANCE

CLEANING

Please refer to the Sikafloor® Cleaning Regime.

FURTHER DOCUMENTS

Please refer to:

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

LIMITATIONS

- Freshly applied Sikafloor® PurCem® products, must be protected from damp, condensation and direct water contact (rain) for at least 24 hours.
- Always allow a minimum of 48 hours after product application prior to placing into service in proximity with food stuffs.
- Products of the Sikafloor® PurCem® range are subject to discolouration when exposed to UV radiation. Depending on colour there are no measurable losses of any properties when this occurs, and it is a purely aesthetic matter.
- Products can be used outside provided the change in appearance is acceptable by the customer. In some slow curing conditions, soiling of the surface may occur when opened to foot traffic, even though mechanical properties have been achieved. It is advised to remove dirt using a dry mop or cloth. Avoid scrubbing with water for the first three days.

VALUE BASE

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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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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