

# SYSTEM DATA SHEET

## Sikafloor® PurCem® HB-21 Gloss

Light texture, broadcasted, gloss finish polyurethane hybrid flooring system

### SYSTEM 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.

The system build-up is composed of a basecoat, on which is broadcasted an aggregate layer to provide anti-slip properties. The system is completed with a glossy, scratch resistant topcoat.

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

Being free from volatile organic compounds, it fulfils the stringent demands for indoor air quality and low VOC emitting products.

### USES

- 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 resistance surface
- Low dirt pick up
- Easy clean and maintain
- Seamless
- Anti-slip surface
- Tolerant to moisture in the substrate
- Durable and very good life cycle cost performance

### APPROVALS / STANDARDS

- Conforms AgBB (2012) for use in indoor environment. Test report No. 392-2014-00018201A\_02. Eurofins Product Testing.
- Food Industry Approval. Certificate of Compliance to be used safely as a floor coating in food sector. Short term contact of the coating with the foodstuff is safe as far 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.

## COLOURS

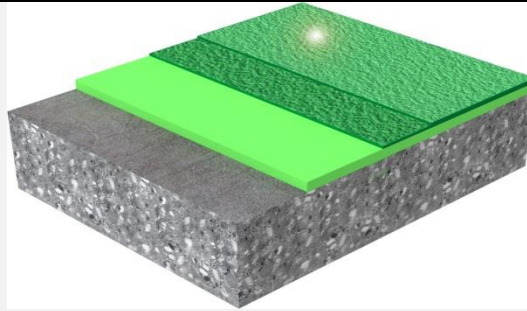
Beige, Dusty Grey, Grass Green, Maize Yellow, Night Blue, Oxide Red, Pebble Grey, Tele Grey 2

## SYSTEM PROPERTIES

<b>Bond Strength</b>	>2.0	N/mm <sup>2</sup>	(EN 1542)												
<b>Wear resistance</b>	AR0		(EN 13892-4)												
<b>Slip-resistance</b>	SRV 80 Dry (Pendulum Test ) SRV 77 Wet (Pendulum Test )		(DIN EN 13036-4)												
<b>Reaction to Fire</b>	B <sub>fl</sub> s1		(EN 13501-1)												
<b>System Thickness</b>	4 - 7 mm														
<b>Temperature Resistance</b>	<p>Basecoat Sikafloor® -21/-24/-210/-260 PurCem®</p> <table border="1"> <tr> <td></td> <td>4 mm</td> <td>6 mm</td> </tr> <tr> <td>*Service temperature</td> <td>-10°C to +60°C</td> <td>-20°C to +70°C</td> </tr> </table> <p>Basecoat Sikafloor® -22 PurCem®</p> <table border="1"> <tr> <td></td> <td>4 mm</td> <td>7 mm</td> </tr> <tr> <td>*Service temperature</td> <td>-15°C to +70°C</td> <td>-25°C to +80°C</td> </tr> </table> <p>*Full service resistance to liquid spillages and discharge. Minimum temperatures in freezers. Short term dry heat in cycles up to + 180 °C.</p>				4 mm	6 mm	*Service temperature	-10°C to +60°C	-20°C to +70°C		4 mm	7 mm	*Service temperature	-15°C to +70°C	-25°C to +80°C
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<b>Chemical Resistance</b>	Refer to Sikafloor® PurCem® Gloss chemical resistance guide. For detailed information contact Sika technical service														

## APPLICATION INFORMATION

### System structure



#### Sikafloor® PurCem® HB-21 Gloss

	Product	Consumption
Optional Scratch coat or Primer	Sikafloor® -21/-24/-210/-260 PurCem® Sikafloor® -155 W/-156/-161 + Quartsand 0.4 – 0.8 mm fully blinded broadcast	1-2 kg/m <sup>2</sup> See PDS
Base coat	Sikafloor® -21/-22/-24/-210/-260 PurCem® + Aggregate broadcast 0.4 – 0.8 mm	1.9 kg/m <sup>2</sup> /mm 4 - 5 kg/m <sup>2</sup>
Topcoat	Sikafloor® -310 PurCem®	0.6 – 0.8 kg/m <sup>2</sup>

Consumptions are theoretical and do not include any wastage, additional material need due to porosity, substrate profile etc.

**Waiting Time / Overcoating**

Waiting time overlaying Sikafloor® PurCem® products

Substrate temperature	Waiting time between scratch coat and base coat	Minimum waiting time between broadcasted base coat and topcoat
+10°C	24 h - 72 h	16 h
+20°C	14 h - 48 h	8 h
+30°C	12 h - 24 h	8 h
+35°C	12 h - 24 h	8 h

If used other primers than Scratch Coat refer the Technical Data Sheet of the respective product.

Make sure that the primer and the scratch coat layer is hardened and tack free before application of Sikafloor® PurCem® following layer.

**Ready for Use**

Sikafloor® -310 PurCem®

Substrate 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
+35°C	10 hours	14 hours	2 days

Times are approximate and will be affected by changing ambient and substrate conditions.

**APPLICATION INSTRUCTIONS**

Refer Sikafloor® PurCem® Gloss Information Manual  
 Refer Sika® Information Manual Mixing and Application of Flooring Systems  
 Refer Sika® Information Manual Surface Evaluation & Preparation  
 Refer Sikafloor® PurCem® Product Datasheets

**CLEANING AND MAINTENANCE**

Refer Information Manual Sikafloor® Cleaning Regime

**VALUE BASE**

All technical data stated in this System Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

**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.

**HEALTH AND SAFETY INFORMATION**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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. 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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System Data Sheet  
Sikafloor® PurCem® HB-21 Gloss  
03/06/16, Vers. 1

English/Region/

**BUILDING TRUST**

