

SYSTEM DATA SHEET

Sikafloor® PurCem® HB-23 Gloss

HIGH TEXTURE, BROADCAST, GLOSS FINISH POLYURETHANE CEMENT HYBRID FLOORING SYSTEM

PRODUCT DESCRIPTION

Sikafloor® PurCem® HB-23 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-23 Gloss 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-23 Gloss withstands 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.

USES

Sikafloor® PurCem® HB-23 Gloss may only be used by experienced professionals.

- Food and beverage industry
- Processing and chemical industry
- Parking decks
- Ramps
- Kitchens
- Basements
- Laboratories
- Wet 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
- Very good life cycle cost performance

ENVIRONMENTAL INFORMATION

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

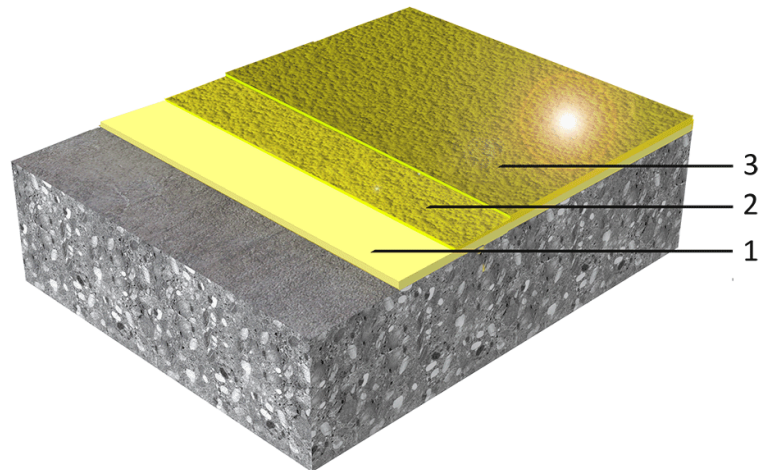
APPROVALS / STANDARDS

- 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 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/134217/3 Campden BRI (Chipping Campden) Ltd.
- Fire classification report according to EN 13501-1:2007 + A1:2010. Test report No. 15/9284-339 Parte 1. Applus LGAI.

SYSTEM INFORMATION

System Structure

Sikafloor® PurCem® HB-23 Gloss



| Layer | Product |
|----------------------------|---|
| 1. Scratch coat (optional) | Sikafloor®-21/-210/-260 PurCem® |
| 2. Base coat | Sikafloor®-21/-210/-260 PurCem® + Aggregate broadcast 1.0–2.0 mm |
| 3. Top coat | Sikafloor®-310 PurCem® |

As optional primers Sikafloor®-155 W/-156/-161 + Quartsand 0.4–0.8 mm fully blinded broadcast can be used. Please refer to the individual Product Data Sheet.

| | |
|--|--|
| Chemical base | Water-based polyurethane cement hybrid |
| Appearance | High texture, 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+. |

TECHNICAL INFORMATION

| | | |
|----------------------------------|--|---------------------------------|
| Shore D Hardness | ~ 80 | (ASTM D 2240) |
| Abrasion Resistance | < 3000 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 | Bfl-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 | R11/V8 | (DIN 5113) |

APPLICATION INFORMATION

| Consumption | Layer | Product | Consumption |
|---|---|--|--|
| | 1. Scratch coat (optional) | Sikafloor®-21/-210/-260 PurCem® | ~1–2 kg/m ² |
| | 2. Base coat | Sikafloor®-21/-210/-260 PurCem® + Aggregate broadcast 1.0–2.0 mm | ~1.9 kg/m ² /mm ~4–5 kg/m ² |
| | 3. Top coat | Sikafloor®-310 PurCem® | ~0.8–0.9 kg/m ² |
| Consumptions are theoretical and do not include any wastage, additional material need due to porosity, substrate profile etc. | | | |
| Product Temperature | Please refer to the individual Product Data Sheet | | |
| 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-23 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 |
| | +10 °C | ~ 36 hours | ~ 48 hours |
| | +20 °C | ~ 18 hours | ~ 22 hours |
| | +30 °C | ~ 12 hours | ~ 16 hours |
| | | | Full cure |
| | | | ~ 7 days |
| | | | ~ 3 days |
| | | | ~ 2 days |
| Note: Times are approximate and will be affected by changing ambient conditions and substrate conditions | | | |

PRODUCT INFORMATION

| | |
|---------------------------|---|
| Packaging | Please refer to the individual Product Data Sheet |
| Shelf Life | Please refer to the individual Product Data Sheet |
| Storage Conditions | Please refer to the individual Product Data Sheet |

MAINTENANCE

CLEANING

Please refer to Sikafloor®- Cleaning Regime.

FURTHER DOCUMENTS

Please refer to:

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

LIMITATIONS

- Do not apply to PCC (polymer modified cement mortars) that may expand due to moisture when sealed

with an impervious resin.

- Always ensure good ventilation when using Sikafloor® PurCem® products in a confined space, to prevent excessive ambient humidity.
- Freshly applied Sikafloor® PurCem® products, must be protected from damp, condensation and direct water contact (rain) for at least 24 hours.
- Protect the substrate during application from condensation from pipes or any overhead leaks.
- Do not apply to cracked or unsound substrates.
- 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® product range are subject to discolouration when exposed to UV radiation.
- Extend depends on colour. There are no measurable losses of any properties when this occurs and it is a purely aesthetical 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 Product 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.

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.

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.

SIKA LIMITED

Watchmead

Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

SIKA IRELAND LIMITED

Ballymun Industrial Estate

Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland



SikafloorPurCemHB-23Gloss_en_GB_(03-2017)_2_1.pdf