

## PRODUCT DATA SHEET

# Sikafloor®-310 PurCem®

Glossy, polyurethane hybrid flooring topcoat

## PRODUCT DESCRIPTION

Sikafloor®-310 PurCem® is a multi-component, water-based coloured polyurethane hybrid topcoat with glossy finish.

## USES

Sikafloor®-310 PurCem® may only be used by experienced professionals.

Sikafloor®-310 PurCem® is used as a top and wear coat layer in Sikafloor® PurCem® Gloss system build ups and coating on horizontal surfaces (covings).

## CHARACTERISTICS / ADVANTAGES

- Good chemical resistance
- Gloss and scratch resistant surface
- High mechanical resistance
- High glass transition point
- Non-tainting / odourless
- VOC free
- Moisture tolerant

## ENVIRONMENTAL INFORMATION

Complies with requirements of DIBt (2010) and AgBB for use in indoor environment. Test report No. 392-2014-0018201A. Eurofin Product Testing.

## APPROVALS / STANDARDS

- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 60258591, and provided with the CE marking.
- Taint potential. Report No. S/REP/134217/3 Campden BRI (Chipping Campden (Ltd).
- 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 foodstuffs is safe as long as any hygienic regulations are not violated. Report No. 38653U14. ISEGA Forschungsund Untersuchungs-Gesellschaft mbH.
- Cleanability. Clean Room Suitable Material (Riboflavin test) test report SI 1501-752, Sikafloor®-310 PurCem®. Fraunhofer Institute for Manufacturing and Engineering and Automation IPA.

## PRODUCT INFORMATION

Chemical Base	Water-based polyurethane cement hybrid	
Packaging	Part A	1.85 kg plastic pail
	Part B	1.85 kg plastic jerrycan
	Part C	2.10 kg plastic lined, double paper bags
	Part A+B+C: 5.80 kg ready to mix units	
Shelf Life	Part A	9 months from date of production. <b>Protect from freezing.</b>
	Part B	12 months from date of production. <b>Protect from freezing.</b>
	Part C	6 months from date of production. <b>Must be protected from humidity.</b>
Storage Conditions	Original, unopened and undamaged sealed packaging, in dry conditions at temperature between +5 °C and +30 °C.	
Appearance / Colour	Part A	coloured liquid
	Part B	brown liquid
	Part C	natural grey powder
	Standard colours: Beige, Dusty Grey, Yellow Green, Golden Yellow, Ultra-marine Blue, Carmine Red, Pebble Grey	
Density	Part A+B+C mixed	~ 1.35 kg/l (EN ISO 2811-1)
	Density value at +20°C	

## TECHNICAL INFORMATION

Shore D Hardness	~80	(ASTM D 2240)
Compressive Strength	~50 N/mm <sup>2</sup> (28 days at +23 °C / 50 % r.h.)	(BS EN 13892-2)
Flexural Strength	~15 N/mm <sup>2</sup> (28 days at +23 °C / 50 % r.h.)	(BS EN 13892-2)
Tensile adhesion strength	concrete failure	(EN 1542)

## SYSTEM INFORMATION

Systems	Please refer to the System Data Sheet of:	
	Sikafloor® PurCem® HB-21 Gloss	Heavy to medium duty, broadcasted, glossy, light anti-slip PUCEM hybrid screed
	Sikafloor® PurCem® HB-22 Gloss	Heavy to medium duty, broadcasted, glossy, medium anti-slip PUCEM hybrid screed
	Sikafloor® PurCem® HB-23 Gloss	Heavy to medium duty, broadcasted, glossy, high anti-slip PUCEM hybrid screed
	Sikafloor®-29 PurCem®	As a topcoat on Sikafloor®-29 PurCem®

## APPLICATION INFORMATION

Mixing Ratio	Part A : B : C = 1 : 1 : 1.15 (packaging size = 1.85 : 1.85 : 2.1) by weight <b>Mix full units only.</b>
Consumption	~ 0.3 – 0.9 kg/m <sup>2</sup> /mm
Ambient Air Temperature	+10 °C min. / +35 °C max.

<b>Relative Air Humidity</b>	80 % max.	
<b>Dew Point</b>	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.	
<b>Substrate Temperature</b>	+10 °C min. / +35 °C max	
<b>Substrate Moisture Content</b>	Can be installed on substrates with increased moisture content (6 % checked by Tramex). The substrate needs to be visibly dry and have adequate pull-off strength min 1.5 N/mm <sup>2</sup> No ponding water. Check rising moisture.	
<b>Pot Life</b>	<b>Temperatures</b>	<b>Time</b>
	+10 °C	~ 35–40 minutes
	+20 °C	~ 22–25 minutes
	+30 °C	~ 15–18 minutes
	+35 °C	~ 12–15 minutes
<b>Curing Time</b>	Before overcoating Sikafloor®-310 PurCem®	
	<b>Substrate temperature</b>	<b>Minimum</b> <b>Maximum</b>
	+10 °C	24 hours 12 hours
	+20 °C	24 hours 48 hours
	+30 °C	12 hours 24 hours
	+35 °C	12 hours 24 hours
	Times are approximate and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity. Make sure that the basecoat coat layer is fully cured before application of Sikafloor®-310 PurCem®.	

## 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.

## FURTHER DOCUMENTS

- Sikafloor® PurCem® Gloss Information Manual
- Sika® Information Manual Mixing and Application of Flooring Systems
- Sika® Information Manual Surface Evaluation & Preparation
- Sikafloor® PurCem® System 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®-310 PurCem® in a confined space, to prevent excessive ambient humidity.
- Freshly applied Sikafloor®-310 PurCem®, 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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

### Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit [www.sika.com/pu-training](http://www.sika.com/pu-training).



## DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / j type wb) is 140 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-310 PurCem® is < 140 g/l VOC for the ready to use product.

## SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull of strength shall not be less than 1.5 N/mm<sup>2</sup>. If in doubt apply a test area first.

## MIXING

Mix first the component A (pigmented liquid) thoroughly in the pail 10 – 15 sec. Then add component B (brown liquid) into A and mix together for 15 - 30 sec. using a stirrer in a low speed electric drill until homogeneous mixture. Then add component C to A+B mixing simultaneously with larger mixer. When the bag of component C is empty, continue mixing further 3 min depending on the temperature and the mixer efficiency.

## APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point. As a top coat Sikafloor®-310 PurCem® can be applied using a soft foam rubber squeegee and back roll with a medium pile roller. For further details please refer to the related system data sheet.

## CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

## 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.

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### Product Data Sheet

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