

## PRODUCT DATA SHEET

# Sikafloor®-210 PurCem®

MEDIUM TO HEAVY DUTY, GLOSSY, SELF-SMOOTHING POLYURETHANE HYBRID FLOORING SCREED

### DESCRIPTION

Sikafloor®-210 PurCem® is a multi-component, water-based coloured polyurethane hybrid screed with self-smoothing properties and a glossy finish. It has an impervious, smooth and scratch resistant surface and is typically installed at 3–6 mm thickness.

### USES

Sikafloor®-210 PurCem® may only be used by experienced professionals.  
Sikafloor®-210 PurCem® is used as a scratch coat primer, basecoat and wear coat layer in Sikafloor® PurCem® Gloss system build ups, in areas of medium to heavy loading, high chemical exposure and abrasion.

### CHARACTERISTICS / ADVANTAGES

- Good chemical resistance
- Gloss and scratch resistant surface
- High mechanical resistance
- High glass transition point
- Non tainting / odourless
- VOC free
- Can be applied to substrates with high moisture content

### ENVIRONMENTAL INFORMATION

Complies with requirements of DIBt (2010) and AgBB for use in indoor environment. Test report No. 392-2014-00295701E. Eurofin Product Testing.

### APPROVALS / STANDARDS

- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 73637948, and provided with the CE marking.
- Taint potential. Report No. S/REP/134217/1 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.
- Taint potential. Report No. S/REP/134217/1 Campden BRI (Chipping Campden) Ltd.
- Cleanability. Clean Room Suitable Material (Riboflavin test) test report SI 1501-752, Sikafloor®-210 PurCem®. Fraunhofer Institute for Manufacturing and Engineering and Automation IPA.
- Biological resistance. Clean Room Suitable Material Test report SI 1412-740, Sikafloor®-210 PurCem®.
- Fire Classification test performed at LGAI Technological Center report No. 9/LE895
- Slip resistance test according to DIN EN 13036-4:2011-12 performed at MPI Prüfinstitut report no. 13 1026 - SRT/15

## PRODUCT INFORMATION

<b>Chemical base</b>	Water-based polyurethane cement hybrid	
<b>Packaging</b>	Part A	5.00 kg plastic pail
	Part B	5.00 kg plastic jerrycan
	Part C	20.00 kg plastic lined, double paper bags
	Part A+B+C: 30.0 kg ready to mix units	
<b>Appearance / Colour</b>	Part A	coloured liquid
	Part B	brown liquid
	Part C	natural grey powder
Standard colours: Beige, Dusty Grey, Grass Green, Maize Yellow, Night Blue, Oxide Red, Pebble Grey, Tele Grey 2		
<b>Shelf life</b>	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>
<b>Storage conditions</b>	Original, unopened and undamaged sealed packaging, in dry conditions at temperature between +5 °C and +30 °C.	
<b>Density</b>	Part A+B+C mixed	~ 1.9 kg/l (EN ISO 2811-1) Density value at +20 °C

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~80	(ASTM D 2240)
<b>Compressive Strength</b>	~50 N/mm <sup>2</sup> (28 days at +23 °C / 50 % r.h.)	(BS EN 13892-2)
<b>Tensile Strength in Flexure</b>	~15 N/mm <sup>2</sup> (28 days at +23 °C / 50 % r.h.)	(BS EN 13892-2)
<b>Tensile Adhesion Strength</b>	concrete failure	(EN 1542)
<b>Reaction to Fire</b>	Bfl-s1	(EN 13501-1:2007)
<b>Skid / Slip Resistance</b>	PTV: 17.0	(DIN EN 13036-4:2011)

## SYSTEM INFORMATION

<b>Systems</b>	Please refer to the System Data Sheet of:	
	<b>Sikafloor® PurCem® HS-21 Gloss</b>	Heavy to medium duty, smooth, self-levelling, glossy PUCEM hybrid screed
	<b>Sikafloor® PurCem® HB-21 Gloss</b>	Heavy to medium duty, broadcasted, glossy, light anti-slip PUCEM hybrid screed
	<b>Sikafloor® PurCem® HB-22 Gloss</b>	Heavy to medium duty, broadcasted, glossy, medium anti-slip PUCEM hybrid screed
	<b>Sikafloor® PurCem® HB-23 Gloss</b>	Heavy to medium duty, broadcasted, glossy, high anti-slip PUCEM hybrid screed

## APPLICATION INFORMATION

<b>Mixing ratio</b>	Part A : B : C = 1 : 1 : 4 (packaging size = 5 : 5 : 20) by weight <b>Mix full units only.</b>
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<b>Consumption</b>	~ 1.9 kg/m <sup>2</sup> /mm		
<b>Layer Thickness</b>	Scratch coat: 0.5–1.5 mm Base- and wear coat: 3–6 mm		
<b>Ambient Air Temperature</b>	+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 higher 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®-210 PurCem®		
	<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	+10 °C	24 hours	72 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. 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 fully cured before application of Sikafloor® PurCem® previous layer.			

## APPLICATION INSTRUCTIONS

### 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 scratch coat Sikafloor®-210 PurCem® can be applied using a

steel trowel. As a body coat Sikafloor®-210 PurCem® can be applied using a toothed trowel or pin screed, to the desired thickness, or a steel trowel. Remove air with a spike 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.

## FURTHER DOCUMENTS

- Sikafloor® PurCem® Gloss Method Statement
- Sika® Method Statement Mixing and Application of Flooring Systems
- Sika® Method Statement 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 Sika-

floor®-210 PurCem® in a confined space, to prevent excessive ambient humidity.

- Freshly applied Sikafloor®-210 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.

## BASIS OF PRODUCT DATA

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

Please note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

## 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.

### 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®-210 PurCem® is < 140 g/l VOC for the ready to use product.

## 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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