

PRODUCT DATA SHEET

Sikafloor®-310 PurCem®

Gloss, chemical, and thermal shock resistant polyurethane hybrid sealer coat

DESCRIPTION

Sikafloor®-310 PurCem® is a glossy, multi-component, waterbased colored polyurethane hybrid sealer coat with high abrasion, chemical and temperature resistance.

USES

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

The Product is used as a seal coat layer for broadcast Sikafloor® PurCem® flooring systems.

The Product is used as a seal coat layer for Sikafloor®-29 PurCem®

Please note:

- The Product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Good resistance to specific chemicals
- Good temperature resistance
- Very good mechanical resistance

PRODUCT INFORMATION

Chemical Base	Water-based polyurethane cement hybrid	
Packaging	Container Part A neutral	1.35 kg
	Container Part A	1.85 kg
	Container Part B	1.85 kg
	Part C	2.1 kg bag
	Part D	0.5 kg plastic pouch for substrate A neutral
	Packaging combined	5.8 kg ready to mix units

Refer to the current price list for available packaging variations.

- Glossy and dense surface
- Low VOC emissions
- Non-tainting
- Odourless

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)
- Conforms with LEED v4 EQ credit: Low-emitting materials
- Complies with the requirements of DIBt (October 2010) in combination with the NIK values from AgBB (June 2012) for use in the indoor environment.

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material
- Fire Classification Report EN 13501-1, Applus, No. 22/32302917-2

Shelf Life	Part A	12 months from date of production
	Part B	12 months from date of production
	Part C	9 months from date of production
	Part D	12 months from date of production

Always refer to the best before date of the individual packaging.

Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
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Appearance / Colour	Part A neutral	light beige liquid
	Part A	coloured liquid
	Part B	brown liquid
	Part C	natural grey powder
	Part D	colourpack as per list below for part A neutral
	Cured appearance	Gloss finish
	Cured colour	Pebble Grey, Beige, Golden Yellow, Dusty Grey, Carmine Red, Agate Grey, Marine Blue, Yellow Green

Note: When the Product is exposed to direct sunlight, there may be some discolouration and colour variation. This has no influence on the function and performance of the Product.

For colour matching: Apply colour sample and confirm selected colour under real lighting conditions.

Density	Mixed Product	~1.35 kg/l	(EN ISO 2811-1)
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TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	80	(ASTM D2240)
Compressive Strength	Cured 28 days at +23 °C	50 N/mm ²	(EN 13892-2)
Tensile Strength in Flexure	Cured 28 days at +23 °C	15 N/mm ²	(EN 13892-2)

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B : Part C : Part D	1.35 : 1.85 : 2.1 : 0.5
	Part A : Part B : Part C	1.85 : 1.85 : 2.10

Consumption	~ 0.3–0.9 kg/m ² per mm thickness
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Product Temperature	Minimum	+10 °C
	Maximum	+35 °C

Ambient Air Temperature	Minimum	+10 °C
	Maximum	+35 °C

Relative Air Humidity	Maximum	80 %
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Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.	
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Substrate Temperature	Minimum	+10 °C
	Maximum	+35 °C
Pot Life	+10 °C	~35–40 minutes
	+20 °C	~22–25 minutes
	+30 °C	~15–18 minutes
	+35 °C	~12–15 minutes

Waiting Time / Overcoating	Before overcoating the Product allow:		
	Substrate temperature	Minimum	Maximum
	+10 °C	24 hours	72 hours
	+20 °C	24 hours	48 hours
	+30 °C	12 hours	24 hours
	+35 °C	12 hours	24 hours

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

Note: If a primer other than a scratch coat of Sikafloor PurCem is applied, refer to the relevant PDS of the chosen product for curing times. Ensure that the primer or scratch coat is fully cured before the application of subsequent Sikafloor PurCem layers.

BASIS OF PRODUCT DATA

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.

- Electric double paddle mixer (>700 W, 300 to 400 rpm)

APPLICATION EQUIPMENT

- Squeegee
- Medium pile nylon roller

FURTHER DOCUMENTS

- Sika Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement: Mixing & Application of Flooring Systems

LIMITATIONS

IMPORTANT

Dirt pick up in slow curing conditions

In some slow curing conditions, soiling of the surface may occur when opened to foot traffic, even though mechanical properties have been achieved.

1. Remove dirt using a dry mop or cloth.
2. Do not scrub the Product with water for the first three days.

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.

REGULATION (EC) NO 1907/2006 - REACH

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT

- Electric single paddle mixer (300 to 400 rpm)

SUBSTRATE QUALITY

TREATMENT OF JOINTS AND CRACKS IMPORTANT

Incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

The System can be applied on green or damp concrete with no standing water. Allow for at least 3 days for early concrete shrinkage to occur to prevent shrinkage cracks from appearing on the wearing surface.

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm².

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

MIXING

IMPORTANT

Mix full units only

3 PART MIXING PROCEDURE

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. Mix Part A + B continuously for 30 seconds until a uniformly coloured mix is achieved.
4. After mixing for 30 seconds, gradually add Part C while you continue mixing.
5. After combining all parts, mix for an additional 2 minutes, until a uniform mix is achieved.
Note: At ambient temperatures less than +15 °C mix between 30 seconds and 1 minute longer.
6. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
7. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

4 PART MIXING PROCEDURE

1. Mix Part A (resin) for ~30 seconds.
2. Add Part D (colour pack) to Part A.
3. Mix Part A + D continuously for 30 seconds until a uniformly coloured mix is achieved.
4. After mixing for 30 seconds, gradually add Part B and continue mixing for 30 seconds.
5. After mixing for 30 seconds, gradually add Part C while you continue mixing.
6. After combining all parts, mix for an additional 2 minutes, until a uniform mix is achieved.
Note: At ambient temperatures less than +15 °C mix between 30 seconds and 1 minute longer.
7. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
8. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

APPLICATION

IMPORTANT

Protecting the material after application

After application, protect the System from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Protect from overhead leaks and condensation

Protect the Product during application from pipe condensation or any overhead leaks.

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

IMPORTANT

Application on polymer modified cement mortars

Do not apply the product on polymer modified cement mortars if the mortar expands when sealed with an impervious resin.

SEAL COAT FOR BROADCAST SURFACES

1. Pour the mixed Product onto the substrate.
Note: The consumption is specified in Application Information.
2. Spread the Product evenly over the surface with a squeegee.
3. Back roll the surface in two directions at right angles with a medium pile roller.
Note: Maintain a "wet edge" during application for a seamless finish.

CLEANING OF TOOLS

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

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

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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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