

PRODUCT DATA SHEET

Sikafloor®-31 PurCem®

Chemical and thermal shock resistant polyurethane hybrid sealer coat

DESCRIPTION

Sikafloor®-31 PurCem® is a multi-component, water-based colored polyurethane hybrid sealer coat with high abrasion, chemical and temperature resistance.

USES

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
- High mechanical resistance
- Good temperature resistance
- Odourless
- Non-tainting
- Low VOC emissions

PRODUCT INFORMATION

Composition	Water-based polyurethane cement hybrid	
Packaging	Container Part A (colored)	1.5 kg
	Container Part A (neutral for color-paste)	1.0 kg
	Container Part B	1.5 kg
	Part C	2.1 kg bag
	Part D Colorpaste)	0.5 kg plastic pouch for substrate A neutral
	Packaging combined	5.1 kg ready to mix units

Please contact our customer service, for information of what packaging sizes are sold in Denmark.

SUSTAINABILITY

- Emission test
- GISCODE PU40/ZP1 (Polyurethan/cement hybrid)
- EPD

DGNB – New buildings and extensive renovations, version 2020-2.0.0 and 2023:

The product is assessed to meet requirements for indicator 20, quality level 2, according to criteria matrix for ENV1.2/Environmentally hazardous substances. Documented by technical datasheet and safety data-sheet.

Click here for more information:

[Sikafloor®-31 PurCem®](#)

APPROVALS / CERTIFICATES

- 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 testing EN 13501-1, APPLUS, No. 21/32305616-2

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	<p>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.</p> <p>Refer to the current Safety Data Sheet for information on safe handling and storage.</p>	
Appearance and colour	Part A neutral	Light beige liquid
	Part A	Coloured liquid
	Part B	Brown liquid
	Part C	White powder
	Part D	colourpack as per list below for part A neutral
	Cured appearance	Matt finish
Cured colour	Pebble Grey, Beige, Golden Yellow, Dusty Grey, Carmine Red, Agate Grey, Marine Blue, Yellow Green	
<p>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.</p> <p>For colour matching: Apply colour sample and confirm selected colour under real lighting conditions.</p>		
Density	Mixed Product	~1.60 kg/l at +20 °C (EN ISO 2811-1)

TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	85	(ASTM D2240)
Reaction to fire	Class B _{fl} -s1		(EN 13501-1)

APPLICATION INFORMATION

Mixing ratio	Part A : Part B : Part C : Part D	1.0 : 1.50 : 2.10 : 0.5
	Part A : Part B : Part C	1.5 : 1.50 : 2.10
Consumption	~0.4–1.0 kg/m ²	
Material temperature	Minimum	+10 °C
	Maximum	+35 °C
Ambient air temperature	Minimum	+10 °C
	Maximum	+35 °C
Relative air humidity	Maximum	80 %
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.	
Substrate temperature	Minimum	+10 °C
	Maximum	+35 °C

Substrate moisture content

The Product can be installed on substrates with a higher moisture content. No ponding water may be present on the surface. Check for rising moisture. The substrate must be visibly dry and must have a minimum pull-off strength of 1.5 N/mm².

Pot Life	+10 °C	~35 minutes
	+20 °C	~22 minutes
	+30 °C	~15 minutes
	+35 °C	~15 minutes

Waiting time to overcoating

Before overcoating the Product allow :

Substrate temperature	Minimum	Maximum
+10 °C	16 hours	72 hours
+20 °C	8 hours	48 hours
+30 °C	4 hours	24 hours
+35 °C	4 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.

FURTHER INFORMATION

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

IMPORTANT CONSIDERATIONS

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

MIXING EQUIPMENT

- Electric single paddle mixer (300 to 400 rpm)

APPLICATION EQUIPMENT

- Squeegee
- Short pile roller

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.

PRODUCT DATA SHEET

Sikafloor®-31 PurCem®

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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 3 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 3 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.

IMPORTANT

Waiting time for foodstuff

Allow a minimum of 48 hours after application before placing foodstuff in the same area.

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 EQUIPMENT

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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