BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-419 W

One-part, transparent, aliphatic polyurethane sealer for decorative and industrial floors

DESCRIPTION

Sikafloor®-419 W is a one-part, water-based, tough and transparent aliphatic polyurethane sealer. It is used as a top coat for interior floor coverings.

USES

Sikafloor®-419 W may only be used by experienced professionals.

Sikafloor®-419 W is used as a:
- Sealer on smooth, textured and non-slip layers of epoxy resin, polyurethane or epoxy-cement and cements
- Sealer for industrial pavements

Please note:
- The Product may only be used for interior applications.

FEATURES

- Colourless finish that can be glossy or matt
- Good resistance to UV exposure
- Good yellowing resistance
- Water-based
- Low odour
- Easy to apply
- Fast initial hardening
- Good scratch resistance
- Good mechanical resistance
- Good resistance to specific chemicals
- Good resistance to abrasion

SUSTAINABILITY

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

CERTIFICATES AND TEST REPORTS

- 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
- Reaction to fire classification EN 13823:2020, Applus, No. 21/32302950-1 English Version

PRODUCT INFORMATION

Composition	Aliphatic polyurethane	
Packaging	One Part Container	4 kg and 10 kg
	Refer to the current price list for available packaging variations.	
Colour	Cured colour	Transparent
Shelf life	12 months from date of production	
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 the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	

Density	1.06 kg/l		(EN ISO 2811-1)
Solid content by mass	39 %		
Solid content by volume	36.8 %		
Appearance	Cured appearance	Gloss and matt finish	

TECHNICAL INFORMATION

Abrasion resistance	Cured 7 days at +23 °C	12 mg (CS10 / 1000 g / 1000 cycles)	(EN ISO 5470-1)
Tensile adhesion strength	> 1.5 N/mm² (failure in concrete)		(EN 1542)

APPLICATION INFORMATION

Consumption

Substrate	Number of layers	Consumption
Cementitious	3 layers	100–120 g/m² per layer
Resin	1–2 layers	80–100 g/m² per layer

If using the Product as a resin sealer in situations where it is subject to wear (such as underneath office chairs), apply two layers of the Product. This increases the mechanical strength of the overall system.
Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Material temperature

Maximum	+30 °C
Minimum	+10 °C

Ambient air temperature

Maximum	+30 °C
Minimum	+10 °C

Relative air humidity

Maximum	75 % r.h.

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 on the surface of the applied product.

Substrate temperature

Maximum	+30 °C
Minimum	+10 °C

Waiting time to overcoating

Substrate temperature	Minimum	Maximum
+20 °C	6 hours	No maximum

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

Applied product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+10 °C	30 hours	48 hours	7 days
+20 °C	16 hours	24 hours	5 days
+30 °C	12 hours	18 hours	3 days

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

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.

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
- Brush
- Short-pile roller
- Optional: Airless spraying unit, for example, SF 31 Wagner diaphragm pump, pipe length 15 m, internal diameter 6 mm, Jet 319, a white filter and a pressure of 180 bar (machine)

SUBSTRATE QUALITY

IMPORTANT
Risk of damage due to contact with water
The Product does not form a moisture barrier. Permanent immersion in water will deteriorate the Product.
1. Do not apply where there is no waterproof membrane or it has deteriorated.
2. Ensure the application area has sufficient inclination to allow water to drain and avoid standing water.

Cementitious substrates 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 contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
Carefully level and clean the surface before starting application. The Product does not conceal dirt or irregularities in the substrate.

MIXING

The Product is supplied ready for use and only needs to be homogenised.
Depending on the porosity of the substrate, the first layer can be diluted up to 5-10 % by weight with clean water.
1. IMPORTANT Avoid overmixing and air entrapment. Stir thoroughly for 2 minutes with an electric stirrer at low speed.

APPLICATION

IMPORTANT
Risk of aesthetic and material damage due to improper consumption
Low consumption can lead to differences in gloss and an uneven surface. It also causes faster curing, reducing the workability time. Increased consumption may lead to soft spots, insufficient curing, differences in mechanical strength, overlap marks and colour changes due to water retention.
1. Observe the recommended consumption rate.

IMPORTANT
Damaged finish due to heating with fossil fuel heaters
Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.
1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

Impaired Product performance and finish due to environmental conditions
Note: Low temperatures and excess humidity impair film formation. Temperatures below +15 °C may cause the Product to thicken and impair application.
1. Observe the maximum and minimum temperatures for storage and application.
2. Do not use the Product if it has been subjected to frost.

ROLLER APPLICATION
1. Pour the Product onto the surface.
2. Apply the Product evenly over the surface with a short-pile roller.
3. Spread the Product in the direction of pouring using a roller. Backroll across the direction of pouring using the same roller.
4. Ensure that the surface of the first coat is completely clean and dry before applying a subsequent coat.
5. Protect the newly applied Product from moisture, condensation and water for at least 7 days (at +20 °C). Fully cured material can be exposed to water for maximum 24 hours.

AIRLESS SPRAY APPLICATION
1. Apply the Product to the substrate by airless spray, at a pressure of 180 bar.
2. Maintain a "wet edge" during application to achieve a seamless finish.
3. If ponding occurs, spread the excess Product with a roller. Note This helps achieve a more even thickness and the Product to better penetrate the substrate.
4. Ensure that the surface of the first coat is completely clean and dry before applying a subsequent coat.
5. Protect the newly applied Product from moisture, condensation and water for at least 7 days (at +20 °C). Fully cured material can be exposed to water for maximum 24 hours.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water 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.

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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