

PRODUCT DATA SHEET

Sikafloor[®]-419 W

Transparent aliphatic polyurethane sealant, single component, used as a top coat on decorative and industrial floors

DESCRIPTION

Single component, tough and transparent water-based aliphatic polyurethane sealant coating for interior floor coverings.

USES

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

- Final sealing layer with high aesthetic requirements for smooth or non-slip systems.
- Sealant on smooth, textured and non-slip layers of epoxy resin, polyurethane or epoxy-cement and cements.
- Suitable for sealing industrial pavements, due to its high mechanical performance.

CHARACTERISTICS / ADVANTAGES

- Colourless finish. It can be glossy or matt.
- Good UV resistance, no yellowing.
- Water based.
- Very low odor.
- Easy to apply.
- Fast initial hardening
- Good scratch resistance due to its tenacity.
- Good mechanical and chemical resistance.
- Good abrasion resistance.

PRODUCT INFORMATION

Chemical Base	Aliphatic polyurethane
Packaging	4 and 10 kgs cans
Appearance / Colour	Transparent. Gloss and matt finish
Shelf Life	12 months from date of production
Storage Conditions	The product must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C.
Density	1.06 kg/l
Solid content by weight	~39%
Solid content by volume	~ 36,8%
Abrasion Resistance	12 mg (CS 10/1000/1000 g) (+23°C)

SYSTEM INFORMATION

Systems	<u>Substrate type</u>		<u>System structure</u>	
	Cement or cement based		3 layers of Sikafloor®-419 W	
	Resin		1 or 2 layers of Sikafloor®-419 W	
Consumption	Coating system	Product	Consumption	
	Cementitious substrate	Sikafloor®-419 W	~ 100 to 120 g/m ² /layer	
	Resins sealer	Sikafloor®-419 W	~ 80 to 100 g/m ² /layer	
<p>These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. Lower consumption can lead to differences in gloss and an uneven surface, Increased consumption may lead to soft spots, insufficient curing, overlap marks and color changes due to water retention.</p> <p>As resin sealer, when used in situations where it is subject to wear, such as the action of moving office chairs, we recommend the use of 2 layers of Sikafloor® -419 W, as it will increase the mechanical strength of the overall system in this kind of situation.</p>				
Ambient Air Temperature	min. +10°C max 30°C			
Relative Air Humidity	min. +10°C max 30°C			
Dew Point	<p>Beware of condensation!</p> <p>The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.</p>			
Substrate Temperature	min +10°C / max +30°C			
Waiting Time / Overcoating	<p>Min: 6 hours (at 20°C)</p> <p>Maximum: No limitations. In this case, when a lot of time passes since the application or the surface is too dirty, it is recommended to clean the surface well.</p> <p>Note: before applying the second coat, it is recommended to check that the first coat is clean and completely dry</p>			
Applied Product Ready for Use	<u>Temperature</u>	<u>Pedestrian traffic</u>	<u>Light traffic</u>	<u>Full cure</u>
	+10°C	30 h	48 h	7 days
	+20°C	16 h	24 h	5 days
	+30°C	12 h	18 h	3 days

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.

LIMITATIONS

The newly applied Sikafloor®-419 W must be protected from moisture, condensation and water for at least 7 days (+20°C). Full cured material could be exposed to water contact for maximum 24 hours. For longer exposition, product could soften and have aesthetic changes. Therefore is advisable to remove any spilled water as soon as possible.

Depending on the porosity of the substrate, the first layer can be diluted up to 5-10% by weight with clean water.

Both irregularities in the substrates and dirt cannot be

coated with thin layers of sealers. Therefore, the surface must be carefully leveled and cleaned before starting the application.

If heating is required, do not use gas, oil, paraffin or other fossil fuel heaters. These produce large amounts of CO₂ and water vapor, which can adversely affect the finish. Use only electric hot air heaters.

In hot weather (above +25°C) store the product in a cool place prior to use.

At low temperatures (below +15°C) the product may thicken and reduce applicability.

Do not use the product that has been subjected to frost.

Do not apply to substrates with temperatures below +10° C and / or humid environment above 75%, as this will make film formation difficult and therefore give an inefficient primer.

Sprayers may be used, but flooding should be avoided. If this happens, it is advisable to spread the excess product with a roller, achieving a homogeneous thick-

ness and helping the product to penetrate better into the support.

This product does not form a moisture barrier. Do not apply when there is no waterproof membrane or it is deteriorated.

Variations in consumption within the same application can lead to differences in the curing of the product and aesthetic appearance, for example:

- Low consumption, generates a very fast curing, reducing the time of workability.
- High consumption, generates a very slow curing can generate soft areas and differences in mechanical strength.

ECOLOGY

For any information regarding safety issues in the use, handling, storage and disposal of chemical residues, users should consult the latest version of the product Safety Data Sheet, which contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Manual Application:

Electric mixer, mixing paddle, brushes and short pile rollers from 10 to 70 cm for the surface area (the amount will depend on the size of the pavement). Supports for telescopic rollers and handles, tape and spatula. Plastics to leave the rollers wet.

Application by projection:

The Sikafloor®-419 W can also be applied with airless, for example, with an airless with 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)

A seamless finish can be achieved by maintaining the "cool edge" during the application.

In these cases, it should be taken into account that nebulisation may be generated in the environment. so both people and the rest of the compartment must be protected. These work must be carried out with companies specialising in this type of application.

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be clean, dry and free of contaminants such as dirt, grease, oil, coatings and surface treatments, etc. Pull-out resistance should be greater than 1.5 N/mm². If in doubt, apply a small test area first.

All dust, loose or poorly adhered materials should be removed from all surfaces prior to application of the product, preferably with a brush or vacuum.

MIXING

Sikafloor®-419 W is supplied ready for use and should only be homogenized.

Before applying the product, mechanically homogenize it for 2 minutes.

Overmixing should be avoided to minimise air occlu-

sion.

Sikafloor®-419 W should be homogenized using a low-speed electric mixer or other suitable equipment.

APPLICATION

Before application, environmental conditions must be confirmed, for example, support, ambient and product temperature, relative air humidity and the dew point.

It is advisable to divide the area to be coated into parts for a number of containers, in order to be able to have consumption under control and know where to extend the product with each package.

The rollers should be soaked in the first area, which should be taken into account to apply more material consumption in that area. The roller will absorb approx. 0.3-0.5 kg of product.

With a small amount of product, precoat the edge areas with a brush or a small roller. It is advisable not to apply more than what can be coated in the next 10 minutes with the normal roller.

Then pour the product and spread it on the support watching the covering.

After the material has been poured, it must be spread in the direction of poured with a roller and with the same roller cross the direction of pouring, covering approx. 1.35 m wide without overlap the current corridor, and vice versa covering approx. 1.45 m overlapping less than 5 cm.

CLEANING OF TOOLS

Clean all tools and equipment with water immediately after use. Cured and/or hardened material may only be removed by mechanical means.

MAINTENANCE

CLEANING

To maintain the appearance of the pavement after application, all spills of Sikafloor®-419 W should be removed immediately and cleaned regularly.

Refer to Sikafloor® systems general cleaning and maintenance procedures.

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

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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