



SILIPUR® 9226

Flexible polyurethane coating

PRODUCT DESCRIPTION

Usage / Properties:

SILIPUR® 9226 is:

- coloured
- solvent free
- pre-filled
- thick coating
- based on a dual component polyurethane resin

SILIPUR® 9226 is suitable for:

- for use on mineral, reaction resin and asphalt-bound substrates
- for interior use in layer thicknesses between 1,3mm and 3mm
- for surfaces subject to medium mechanical loads
- surfaces which require crack-bridging

Special properties of SILIPUR® 9226:

- glossy
- easy to clean
- good crack-bridging capability
- easily de-contaminable
- high elasticity

Typical areas of application are, for example, warehouses, production, and repair halls as wet cells and many more.

SILIPUR® 9226 is normally used for smooth coatings. Through the addition of aggregates, anti-slip coatings can be made in accordance with the requirements of the respective trade association. The product can be used in permanent wet areas.

The crack-bridging capability is dependent on the layer thickness. It should be between 1,3 mm and 3 mm.

Priming is always necessary. We recommend, dependent on the substrate, to use SILIPOX® 7110 or SILIPOX® 7115. For mastic asphalt substrates we recommend SILIPUR® 9110 or SILIPUR® 9115.

Colour / delivery unit / Shelf life

Colour:	According to the colour chart, further colours on request
Delivery unit:	30kg; further container sizes on request
Shelf life:	12 months after production date
	Dry, cool, and free of frost in original containers

TECHNICAL DATA

Density at 23°C / 50 % rel. hum. of air	approx. 1,41 g/cm ³	
Solid contents	approx. 100 %	
Shore-hardness	A > 75	
Viscosity (25°C, V03.1, V03.4)	Component A:	2.850 – 4.300 mPas
	Component B:	80 – 120 mPas
Mixing ratio	6 : 1 (by weight)	
	5,1 : 1 (by volume)	
Material consumption:	1,5 kg/m ² /mm layer thickness	
	Minimum layer thickness: 1,3 mm	
	Recommendation: 2,0 – 2,5 kg/m ²	
Processing time (at 50% rel. hum. of air)	12 – 17 minutes (30°C)	
	25 – 35 minutes (20°C)	
	40 – 60 minutes (10°C)	
Tack free time (at 50% rel. hum. of air)	min. 4 – 5 hours, max. 12 hours at 30 °C	
	min. 6 – 10 hours, max. 24 hours at 20 °C	
	min. 16 – 20 hours, max. 48 hours at 10°C	
Curing (complete mechanical stress at 50% rel. hum. of air))	3 days (30 °C)	
	7 days (20 °C)	
	10 days (10 °C)	

Processing:

Substrate:

The substrate must be non-slip, clean, to be able to take loads and to be free of separating substances like fats, oils, etc. and at least dry. Proper substrate treatment by e.g. shot blasting or similar processes is necessary for a sufficient bond to the substrate. After the treatment, the peel strength should be at least 1,5 N/mm². The residual moisture in the substrate should not exceed 4%. Furthermore, rearward moisture penetration should be excluded. Walls needs to be prepared by sanding or sandblasting.

Application takes place on a prepared and primed substrate. Dependent on the preparation work done to the substrate, the material usage may vary.

The coating may be applied directly to the primer within the recoating time. If this recoating time is exceeded, then the recently applied and still wet area must be broadcasted with fire-dried quartz sand in advance or otherwise this area must be prepared by grinding after curing for the next layer.

Tools:

Smoothing trowel, triangular-teethed rake or similar

Mixing:

Pour the curing agent completely into the main component. Mix intensively with a slow rotating stirrer (recommendation: double stirrer with shafts that rotate in opposite directions). Pour into a different vessel and mix again to avoid bad spots.

Before applying onto the substrate, a homogeneous mass, free of streaks must be achieved.

SILIPUR® 9226 is ready formulated. We do not recommend filling the product due to a loss of flexibility.

Application:

The product is poured onto the surface and spread evenly using a triangular-teethed rake or smoothing trowel.

If necessary, the coating can be deaired using a spiked roller.

Upon bigger areas, care regarding the processing time has to be considered to avoid / minimize edges and differences in colour.

General:

Material, air, and substrate temperatures must be measured and must be between 10 °C and 30 °C during the whole application. The material should not be in direct sunlight or applied on hot substrates as the processing time will drastically shorten.

Furthermore, care must be considered that the substrate temperature is always 3 °C above the dew point temperature.

Relative humidity of air should not exceed 80 % at any time.

The product should be applied at a constant or decreasing temperature in order to avoid blistering by expansion of air in the substrate. Good ventilation after application and during curing must be ensured.

During the complete curing phase, the area has to be protected against direct contact with water.

When exposed to UV radiation, a certain change in colour and shade or chalking must be expected. The technical properties are not affected.

Information for use in areas exposed to chemical is available on request.

Cleaning

For cleaning the tools, we recommend using our **R 1001**.

Hardened material can only be removed mechanically.

CE-LABELLING

Products which fall under specifications regulated by a harmonized standard or for which a European Technical Assessment has been issued have be labelled in accordance with Annex III of Regulation (EU) No 305/2011 (Construction Products Regulation) with the CE-mark.

EN 13813: 2002 „Screed material and floor screeds – screed materials – properties and requirements“ sets the rules for screed materials used for floor construction indoors. Coatings and Sealers are included in this regulation as well.

The EN 1504-2: 2004 “Products and systems for the protection and repair of concrete structures- Definitions, requirements, quality control and evaluation of conformity – Part 2: Surface protection systems for concrete” specifies the requirements for hydrophobic impregnations, impregnations, and coating, which are used for the surface protection of concrete. Flooring systems that are exposed to significant mechanical stresses also have to fulfil the requirements of the EN 13813.

For more detailed information please refer to the corresponding declaration of performance.

SAFETY INFORMATION:

Only for professional users.

For safe handling of polyurethane resins and their curing agents we do recommend attention to the following leaflets as a matter of principle:

Leaflet M044, Manufacturing and use of polyurethanes / isocyanates. (Ed.:Berufsgenossenschaft der Chemischen Industrie). Furthermore, the relevant physical, safety-related, toxicological and ecological data have to be taken from the specific material safety data sheets.

Disposal:

Completely cured material may be disposed via domestic waste.

Hand residual emptied units over to Recycling.

Liquid material must be disposed of as paint waste which contains solvents or other dangerous substances.

VOC-Directive 2004/42/EG:

Category IIA/j Type Ib < 500 g/l VOC

(limit 2010)

Data base:

The determination of all the data and application information is based on laboratory tests. Measured values in practice may differ because of influences beyond our control.

Legal foundation:

The following specifications as well as the recommendations for handling and use of our products are based upon our knowledge and experience under normal conditions, at proper storing and application. Because of different materials, substrates and working conditions other than given normal values, a warranty of a working result or a liability – for whatever legal relationship - cannot be justified from these instructions or a verbal guidance respectively, unless intent or gross fault can be imputed to us. Here, the user must prove that he had transferred in written form, in time and completely every knowledge that is necessary for an appropriate and promising estimation. The user is obliged to test the products on their suitability for the intended purpose. Incidentally, our respective terms and conditions of business are valid. You get these on www.wst-quarz.de. Only the newest edition of this technical data sheet is valid.

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