



SILIPUR® 9110

PU primer for asphalt-bound substrates

PRODUCT DESCRIPTION

Usage / Properties:

SILIPUR® 9110 is:

- solvent free
- polyurethane-resin based
- unfilled
- not pigmented

SILIPUR® 9110 is suitable for:

- priming and sealing of substrates from rubber, asphalt, wood, laying tiles or steel
- for the production of non-decorative smoothing compounds and mortars

Special properties of SILIPUR® 9110:

- usable for areas which are exposed to high temperature fluctuations
- very good elasticity at low temperatures
- adjusted to be low viscous and therefore also easy to process at low temperatures

Colour / delivery unit / Shelf life

Colour:	Transparent, yellowish
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. 1,10 g/cm ³
Adhesive strength	> concrete fracture
Solid contents	100 %
Shore-hardness	A 83 – 87
Viscosity (25°C, V03.1, V03.4)	Component A: 2.100 – 3.100 mPas
	Component B: 140 – 200 mPas
	Mixture viscosity: Approx. 1.200 mPas
Mixing ratio	5 : 2 (by weight)
	2 : 1 (by volume)
Material consumption:	250 – 400 g/m ² as primer on smooth substrates
	300 – 500 g/m ² as primer on uneven substrates
	1 : 8 – 1 : 10 as mortar dependent on the grading curve, usage and open porosity of the finished layer.
Processing time (at 50% rel. hum. of air)	12 – 18 minutes (30°C)
	25 – 35 minutes (20°C)
	50 – 70 minutes (10°C)
Tack free time (at 50% rel. hum. of air)	min. 6 – 8 hours, max. 12 hours at 30 °C
	min. 12 – 16 hours, max. 24 hours at 20 °C
	min. 24 – 36 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.

The surface of the substrate needs to be checked thoroughly and prepared according to the results by sanding or sandblasting. Dependent on the preparation work done to the substrate, the material usage may vary.

Tools:

Rubber slider, roller with short or medium sized fur, smoothing trowels, teathed rake etc.

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.

Application:

As primer and sealant, the product is poured onto the surface, applied with a rubber slider, and evenly spread using a roller with short or medium sized fur in a criss-cross pattern.

To achieve a uniform appearance of the sealant, absorbent substrates must be sealed at least twice within the specific recoating time. For larger surfaces, care must be taken to work in a timely manner in order to minimize / avoid build-up marks.

A self-levelling compound with up to 2 mm of layer thickness can be achieved by mixing the finished coat with fire-dried quartz sand (grain size 0,125-0,355mm) at 20°C (dependent on the temperature). The compound is spread with a teathed rake or smoothing trowel.

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

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.

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.

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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