



## SILIPOX® 3210 Low emission binding material

### PRODUCT DESCRIPTION

#### Usage / Properties:

##### SILIPOX® 3210 is:

- unfilled
- solvent free
- based on epoxy resin

##### SILIPOX® 3210 is suitable for:

- as resin for WST decorative coatings
- as sealant for decorative floor coverings
- as binder for the production of industrial and decorative synthetic resin screeds

##### Special properties of SILIPOX® 3210:

- good UV resistance
- Resistant against water, seawater, sewage water, many lye solutions, diluted acids, salt solutions, mineral oils, lubricants, fuels and many solvents.

#### Colour / delivery unit / Shelf life

Colour:	Transparent
Delivery unit:	30 kg; further container sizes on request
Shelf life:	12 months after production date
	Dry, cool and free of frost

## TECHNICAL DATA

Density at 23°C / 50 % rel. hum. of air	Approx. 1,09 g/cm <sup>3</sup>
Adhesive strength	> concrete fracture
Solid contents	100 %
Shore-hardness	D 78 - 82
Viscosity (25°C, V03.1, V03.4)	Component A: 750 – 1.100 mPas
	Component B: 500 – 700 mPas
Mixing ratio:	2: 1 (by weight)
	1,8 : 1 (by volume)
Material consumption:	200 – 400 g/m <sup>2</sup> as sealant on smooth substrates
	300 – 800 g/m <sup>2</sup> as sealant on rough substrates
Processing time (at 50% rel. hum. of air)	1 : 8 to 1 : 25 as screed dependent on the grading curve, application and open porosity of the finished coat.
	20 – 30 minutes (30°C)
	40 – 50 minutes (20°C)
Tack free time (at 50% rel. hum. of air)	70 – 90 minutes (10°C)
	min. 6 – 8 hours, max. 12 hours at 30 °C
	min. 12 – 16 hours, max. 24 hours at 20 °C
Curing (complete mechanical stress at 50% rel. hum. of air))	min. 24 – 36 hours, max. 48 hours at 10 °C
	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.

Sealing with SILIPOX® 3210 must follow within the recoating time on a recently coated area or a stone carpet / synthetic resin screed. Refreshing of stone carpets and synthetic resin screeds is made after intense basic cleaning.

WST decorative coatings are applied on prepared and primed substrates. In any case the primer must be broadcasted to achieve a certain degree of resistance (trowel) and therefore an easier application.

### Tools:

Rubber slider, roller with short or medium-sized fur, metal profiles, trowel, 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 there intensively again to avoid bad spots.

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

**Application:**

By manufacturing stone carpets binder SILIPOX® 3210 is homogeneously mixed with aggregates and spread onto the area, the corresponding layer thickness is adjusted by use of metal profiles and then manually or mechanically compressed.

As primer / sealing material, the product is poured onto the prepared area, applied in a criss-cross pattern by use of a roller with short or medium-sized fur. Sealing with SILIPOX® 3210 must follow within the recoating time. Upon bigger areas, care regarding the processing time must be considered to avoid / minimize edges.

**General:**

Material, air and substrate temperatures must be measured and must be between 10 °C and 30 °C during the whole application.

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

Relative humidity of air may not exceed 80 %.

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 with epoxy resins. For this reason, we recommend using muted colours.

**Cleaning**

For cleaning the tools, we recommend our **R 1000**.

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:**

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

Leaflet BG-Regel BGR 227, Handling of epoxy resins. (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

**Data base:**

The determination of all the data and application information is based in 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.gremmler.de](http://www.gremmler.de). Only the newest edition of this technical data sheet is valid.

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