SILIPUR® 6202 Decorative binder

PRODUCT DESCRIPTION

Usage / Properties:

SILIPUR® 6202 is:

- solvent free
- light and weather resistant
- elastic
- single component
- polyurethane-resin based
- unfilled and not pigmented

SILIPUR® 6202 is suitable for:

- for the production of WST decorative coatings which need to be resistant against light and weather
- as sealant for WST decorative coatings
- as solvent free sealant for decorative floor coating systems with textured surfaces like chip coatings

Special properties of SILIPUR® 6202:

- sealings made with SILIPUR® 6201 are characterized by good scratch- and abrasion resistance
- by using SILIPUR® 6201, the colours of the decorative coating are optically highlighted and appear more intense and bolder

Classical areas of application are exhibition halls, terraces, balconies.
After curing, SILIPUR® 6202 is physiologically harmless and may therefore be used a coating for food processing areas (commercial kitchens, bakeries, beverage bottling etc.).

Colour / delivery unit / Shelf life

Colour:	transparent
Delivery unit:	6 kg, 10 kg; further container sizes on request
Shelf life:	6 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. 1,13 g/cm³
Adhesive strength	> concrete fracture
Solid contents	approx. 98 %
Viscosity (25°C, V03.1, V03.4)	approx. 1.400 – 2.000 mPas
Material consumption:	as sealant approx. 200 g/m² (dependent on the surface) as binder for WST decorative coatings approx. 6 – 8 % of the amount of colour quartz or marble. Values dependent on the grading curve and open porosity of the finished layer.
Processing time (at 50% rel. hum. of air)	25 – 35 minutes (30°C) 50 – 70 minutes (20°C) 100 – 140 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 – 46 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 dry.

Sealing with SILIPUR® 6202 takes place within the recoating time on a fresh chips coat or WST decorative coating.

WST decorative coatings are laid on prepared and primed substrates. The primer needs to be sprinkled with fire-dried quartz sand to achieve a certain degree of resistance for an easier sealing.

Tools:

Roller with short or medium sized fur, metal profiles, smoothing trowels etc.

Mixing:

Shake the container thoroughly before application.

Application:

As sealant for WST decorative coatings and chip coatings, the product is applied evenly using a roller with short or medium sized fur in a criss-cross pattern.

To avoid ”puddle formation”, it is important that the roller soaked with SILIPUR® 6201 is rolled up on a foil beforehand. Furthermore, it is essential to ensure an even application in order to avoid forming and visual impairments

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

By manufacturing decorative coatings, the binder is homogeneously mixed with aggregates and spread onto the area, the corresponding layer thickness is adjusted by use of metal profiles and then manually compressed.

If the binder content is too large foam and bubbles can form in the lower part mortar.

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 be between 40% and 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.

SILIPUR® 6202 is not constantly resistant against plasticisers and can therefore not be used to park vehicles with rubber tires.

When exposed to UV radiation, a slight change in colour and shade or chalking must be expected with polyurethane resins. Due to the permeability of plastics to UV radiation, the visible layer underneath also needs to have a light-resistant property as the coat does not give any protection.

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 lb < 500 g/l VOC
(limit 2010)

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. Only the newest edition of this technical data sheet is valid.

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