



SILIPOX® 3222 Pigmented self-levelling binding material

PRODUCT DESCRIPTION

Usage / Properties:

SILIPOX® 3222 is:

- unfilled
- solvent free
- pigmented
- based on epoxy resin

SILIPOX® 3222 is suitable for:

- inside areas for layer thicknesses from 1,5mm upwards
- for industrial and commercial objects with high mechanical and chemical stress

Special properties of SILIPOX® 3222:

- tough
- glossy
- easy to clean, easily decontaminable
- high abrasion resistance
- Hard wearing
- Is fillable with SILIFILL in a 1 : 1 ratio before using

Smooth coatings can be made with SILIPOX® 3222. By using aggregates, anti-slip coatings can be made according to the requirements of the respective trade association. The product can be used in permanently wet areas.

Areas of application are warehouses, garages, dairies, laboratories, exhibition halls and chemical plants.

Priming is always necessary. We recommend, dependent on the substrate, to use SILIPOX® 7110, SILIPOX® 7114 or SILIPOX® 7115.

Colour / delivery unit / Shelf life

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

TECHNICAL DATA

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|--|---|
| Density at 23°C / 50 % rel. hum. of air | Approx. 1,13 g/cm ³ |
| Adhesive strength | > concrete fracture |
| Solid contents | 100 % |
| Shore-hardness | D 72 – 82 |
| Viscosity (25°C, V03.1, V03.4) | Component A: 700 – 1.000 mPas |
| | Component B: 250 – 380 mPas |
| Mixing ratio: | 2: 1 (by weight) |
| | 1,75 : 1 (by volume) |
| Material consumption: | 1,5 kg/m ² /mm layer thickness |
| | Minimum layer thickness: 1 mm |
| | Recommendation: 1,98 – 2,25 kg/m ² |
| Processing time (at 50% rel. hum. of air) | 15 – 20 minutes (30°C) |
| | 30 – 40 minutes (20°C) |
| | 60 – 80 minutes (10°C) |
| Tack free time (at 50% rel. hum. of air) | min. 6 – 8 hours, max. 12 hours at 30 °C |
| | min. 8 – 12 hours, max. 24 hours at 20 °C |
| | min. 18 – 30 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.

Application takes place on on prepared and primed substrates.

Within the recoating time, the coating can be applied directly onto the primer. If the recoating time is exceeded, the primed area needs to either be sprinkled with quartz sand if in fresh condition or after hardening, sanded down and prepared for further coating

Tools:

Trowel, triangular teathed scraper 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 there intensively again to avoid bad spots.

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

Application:

The product is poured onto the desired surface and spread evenly with a scraper or trowel across the complete surface.

If necessary, a spiked roller can be used to bleed air out of the coat.

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. The technical properties are not affected.

Epoxy resins tend to whiten. This should be considered when selecting the colour.

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 to 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.

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 coatings used for the surface protection of concrete. For flooring systems that are exposed to significant mechanical stresses, the requirements of DIN EN 13813 must also be met

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

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