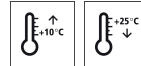


Technical Data Sheet

StoPox WB 100

EP coating, water-based, low-emission



Characteristics

Application

- interior
- on cement-bound substrates in contact with the ground
- magnesia and calcium sulphate screeds
- as coloured coating for industrial flooring

Properties

- good flow and deairing properties
- rapid hardening at room temperature
- mechanical resistance
- VOC - low on emissions
- very good water vapour permeability (class I)

Appearance

- silk matt

Information/notes

- avoid draughts during application
- product is in accordance with EN 1504-2
- product is in accordance with EN 13813

Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Tensile strength (28 days)	EN 1542	> 2.0 MPa	
Flexural strength (28 days)	EN ISO 178	> 20 MPa	
Shore hardness D	DIN 53505-D/EN ISO 868	68 - 74	
Density (mixture 23 °C)	EN ISO 2811	1.79 - 1.90 g/cm ³	

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Requirements

The substrate must be dry, load-bearing and free from characteristic or dissimilar separating substances.
Less solid layers and slurry accumulations must be removed.

Dry or damp according to the definition of the Restoration Guideline 2001-10.

Substrate temperature greater than +10°C and 3 K above dew point.
Average tensile strength 1.5 N/mm²

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Smallest individual tensile strength value is 1.0 N/mm²

Special expert knowledge is required for assessing magnesia and calcium sulphate screeds.

Preparations Prepare the substrate employing a suitable mechanical process such as shot-blasting, milling and subsequent shot-blasting, or blasting with solid abrasives.

Application

Application temperature Lowest application temperature: +10°C
Highest application temperature: +25°C Max. permissible relative humidity 85%

Processing time At +10°C: approx. 60 minutes
At +20°C: approx. 30 minutes
At +30°C: approx. 15 minutes

Mixing ratio component A : component B = 100.0 : 10.0 parts by weight

Material preparation Component A and Component B are supplied in the correct mixing ratio and mixed in accordance with the following instructions. Stir component A, then add all of component B.
Mix thoroughly with a slow-running stirrer (maximum 300 rpm) until a homogeneous, streak-free compound develops. It is also vital to thoroughly stir at the sides and bottom to ensure the hardener is uniformly distributed. Mixing time at least 3 minutes.
After mixing, pour the compound into a clean container and mix again.
Do not apply from the delivery container!

The temperature of the individual components must be at least +15°C when mixing.

Consumption	Type of application	Approx. consumption	
	per mm of layer thickness	1.9	kg/m ²
recommended material application	3.0 - 4.0	kg/m ²	

Material consumption depends on the application, substrate and consistency, amongst other factors. The specified consumption values are only to be used as a guide. If required, precise consumption values should be determined on the project.

Coating procedure Industrial floor coating for medium mechanical stress, water vapour permeable.

1. Primer with StoPox WG 100
2. Levelling filler coating with StoPox WG 100 (for roughness depths > 0.5 mm).
3. Coating with StoPox WB 100.
4. Matting sealant StoPox WL 150 transparent (optional)
5. StoDivers P 105 / StoDivers P 120 care treatment

Application Industrial floor coating for medium mechanical stress, water vapour permeable.

- 1) Surface preparation

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2. Primer: StoPox WG 100

Dilute StoPox WG 100 with approx. 10% water, apply with a rubber squeegee and evenly spread by subsequent rolling/brushing.

Consumption: approx. 0.3 - 0.5 kg/m², depending on the roughness of the substrate.

3. Levelling filler coating (for roughness depths > 0.5 mm)

Apply StoPox WG 100 tinted, undiluted, approx. 1:0.5 to 1:0.8 filled with e.g. StoQuarz 0.1 - 0.5 mm, using a rubber squeegee (toothing 5 mm, Sto-Tool Catalogue), and trowel off with a steel trowel.

Consumption of mixed material: approx. 1.5 kg/m² and mm of layer thickness; consumption of StoPox WG 100: approx. 0.8 - 1.2 kg/m² and mm of layer thickness

If the filling did not completely seal the pores due to the high porosity of the substrate, the remaining pores have to be sealed with StoPox WG 100 and StoDivers ST.

Over-coatable if used as filler: after approx. 8 - 10 hours at +20°C

4. Coating with StoPox WB 100 Apply the StoPox WB 100 undiluted using a toothed trowel/squeegee with triangular toothing or a rubber squeegee with coarse toothing, and ventilate with a spiked roller. Consumption: approx. 1.9 kg/m² per mm of layer thickness

Recommended material application: approx. 3.0 - 4.0 kg/m²

Less material application worsens the flow properties.

For the application of StoPox WB 100, the following is used, e.g.:

Steel squeegee (Sto-Tool Catalogue): toothing 48 at a consumption of approx. 2.8 kg/m², toothing 78 at a consumption of approx. 3.2 kg/m²

Rubber squeegee (Sto-Tool Catalogue): toothing 8 mm at a consumption of approx. 2.8 kg/m², toothing 10 mm at a consumption of approx. 3.3 kg/m², toothing 12 mm at a consumption of approx. 4.7 kg/m².

5. Matting sealant StoPox WL 150 transparent (optional)

Dilute the mixed material with approx. 15 % water, mix again and apply with criss-cross movements using a nylon roller (pile length 13 - 14 mm). 1 to 2 application cycles may be required.

Consumption: approx. 0.13 - 0.15 kg/m² per application cycle

We recommend laying StoPox WL 150 transparent with a 25 cm roll followed by subsequent rolling crosswise with a 50 cm large surface roller.

6. Care StoDivers P 105 / StoDivers P 120 (optional)

Apply a thin layer of care treatment equally to the clean and cured industrial flooring. Apply material using a pre-dampened mop. Leave the floor to dry sufficiently, approx. 20-30 min.

The second application is carried out across the previous application cycle. It is

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essential that drying times between application cycles are adhered to. Depending on the expected stress, several application cycles may be necessary.

Consumption: approx. 30 - 50 ml/m² per application cycle

Completely hardened: at +10°C after 7 days, at +23° C after 5 days

Note:

Discolouring can occur depending on exposure to chemicals which do not, however, impair the features of the coating.

Ensure sufficient ventilation when applying water-based coating systems.

Draughts should, however, be avoided.

Different material application, too high humidity, and too low temperatures can lead to impairments in appearance (differences in the gloss levels).

Avoid direct sunlight, high temperatures, and not enough humidity as they result in a fast hardening (skin formation/seams/visible squeegee traces).

Drying, curing, ready for next coat

Reworking time:
At +10°C: approx. 24 h
At +20°C: approx. 16 h
At +30°C: approx. 12 h

Cleaning the tools

Clean with water.

Indications, recommendations, special information, miscellaneous

The statement(s) of conformity can be obtained in the StoCretec Technical Information Centre
General application instructions can be found at www.stocretec.de (Products) and in the appendix of the current manual "Technical Data Sheets"

The wear class specified in the CE marking refers to the smooth, non sprinkled covering.

Delivery

Colour shade

broad variety of colour shades, RAL colour fan, StoColor System – limited colour choice

Packaging

Pail and tin

Article number

01496/001

Designation

StoPox WB 100 Set tinted

Container

22 kg set

Storage

Storage conditions

Store in dry and frost-free conditions; avoid direct sunlight.

Storage life

In the original container until ... (see packaging).

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Certificates / approvals

Identification

Product group Water-based coating

Safety

This product is subject to compulsory designation under EU law. You will receive an EU Health & Safety Data Sheet with your first order. Please observe the information regarding the handling of the product, its storage and disposal.
Practical guide for dealing with epoxy resins: "Sicherer Umgang mit Epoxidharzen in der Bauwirtschaft" (Safely dealing with epoxy resins in the construction industry).
And
Test report on the protective action of chemical protective gloves against EP coatings: "Handschuhe für lösemittelfreie Epoxidharz-Systeme" (Gloves for solvent-free epoxy resin systems) and "Schutzhandschuhe: Richtig anwenden" (Protective gloves: Correct use)
www.gisbau.de/service/epoxi/Bericht.pdf

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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"
(Economic and safe building site facilities)

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Special instructions

The information or data serves to ensure the product's intended use or its suitability for use and is based on our findings and experience. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.

Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations with other products.

When a new technical data sheet is published, all previous technical data sheets are no longer valid. The latest version is available on the Internet.

Technical Data Sheet

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*Product images may differ from the actual product.