Technical Data Sheet

StoPox WB 100

EP coating, water-based, low-emission

Characteristics

Area of application	• interior • on floors • on cementitious substrates in contact with the ground • magnesite and calcium sulphate screeds • as a coloured coating for industrial flooring • as a component of StoFloor Cleanroom system 6
Properties	• good flow and de-airing properties • rapid curing at ambient room temperature • mechanical resistance • low in VOC 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 specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Flexural strength	EN ISO 178	> 20 MPa	
Shore hardness type D	DIN 53505-D/EN ISO 868	75 - 85	Intended for approx. RAL 7032
Density (mixture 23 °C)	EN ISO 2811	1.78 - 1.90 g/cm³	

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, 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	General: - Dry, load-bearing - Free from separating, native, or foreign substances - Remove weak layers. - Remove any accumulation of fine concrete particles on the surface. Dry substrate: - Depends on the compressive strength class - Dry according to the definition contained in the DAfStb (German) Repair Guideline, issue 2001-10. Substrate temperature: at least +10 °C, 3 K above the dew point Bond strength, average: 1.5 N/mm² Bond strength, lowest single value: 1.0 N/mm² Screed: - The condition of magnesite screeds and calcium sulphate screeds should be evaluated by qualified personnel.
Preparations	Prepare all the above-mentioned substrates using a mechanical method, see “Substrate, requirements”. Example: - Shot-blasting - Milling followed by shot-blasting - Abrasive blasting

Application

Application temperature	Application temperature: minimum temperature: +10 °C Maximum temperature: +25 °C Relative humidity: maximum: 85 %
Time for application	At +10 °C: approx. 60 minutes At +20 °C: approx. 30 minutes At +30 °C: approx. 15 minutes
Mixing ratio	component A : component B A : B 100.0 : 10.0 parts by weight
Material preparation	Notes: - Component A and component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions. - Observe the order of the “Preparing material” steps.

- The material temperature is between +15 °C and +25 °C.
- The temperature of all components is between +15 °C and +25 °C.

Mixing time:
- The length of the mixing time depends on the temperature of the material and the ambient temperature.
- Mix each container for the same length of time.

Possible consequences if mixing times are too long or too short:
- Mixing the product too long will shorten the time for application.

The temperature of the individual components must be min. +15 °C when mixing.
Preparing the material:
1) Stir component A.
2) Add all of component B.
3) Mix the components until the hardener is well distributed, the mixture is homogeneous, and a streak-free mass is produced.
Paddle mixer: slow running mixer, maximum 300 rpm
Mixing time: at least 3 minutes
4) Ensure the the mixing equipment covers the floor areas and the edge zones of the mixing container. The hardener must be evenly distributed.
5) Transfer the mixture to a clean container. Mix the components again.

Consumption

Type of application	Approx. consumption	
per mm layer thickness	1.9	kg/m²
recommended material application	3.0 - 4.0	kg/m²

Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.

Coating build-up

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

1) Prepare the substrate.
2) Priming: StoPox WG 100
3) Apply the levelling coat: StoPox WG 100 (for roughness depths > 0.5 mm)
4) Apply a coating: StoPox WB 100
5) Matting sealing coat: StoPox WL 150 transparent (optional)
6) Floor finish: StoDivers P 105 or StoDivers P 120

Application

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

1) Prepare the substrate.

2) Priming:

- StoPox WG 100
- Dilute with approx. 10 % water.
- Apply the product. Tools: rubber squeegee
- Rework the product with a roller and spread evenly. Tools: short-pile roller sleeve

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

3) Levelling coat: (for roughness depths > 0.5 mm)
- StoPox WG 100
- filling the product: 1:0.5 to 1:0.8 parts by weight, StoPox WG 100 : StoQuarz 0.1-0.5 mm
- Apply the product. Tools: rubber squeegee, 5 mm notching
- Trowel off the material leaving a thin layer. Tools: smoothing trowel
- Consumption of StoPox WG 100 per mm layer thickness: approx. 0.8-1.2 kg/m²
- Consumption of the mixed material per mm layer thickness: approx. 1.5 kg/m²
- Over-coatable: at +20 °C after approx. 8-10 h

Note:
if pore filling is not achieved by the levelling coat, the remaining pores must be closed, e.g. with StoPox WG 100, StoDivers ST

4) Apply a coating:
- StoPox WB 100
- Apply the product. Tools: notched trowel, squeegee notching 48 or 78, rubber squeegee, notching 8 mm
- Spread the product evenly and rework with a roller. Tools: spiked roller sleeve
- Consumption: approx. 2.0 kg/m² and mm layer thickness
- Recommended material application: approx. 3.0 - 4.0 kg/m²

Note:
- Applying less material worsens the flow properties.

5) Matting sealing coat:
- StoPox WL 150 transparent (optional)
- Dilute with approx. 15 % water.
- Rework the product and spread evenly in a criss-cross pattern with a roller. Tools: nylon roller, pile height: 13-14 mm

Note:
- 1 to 2 application cycles required

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

Recommendation: Decant StoPox WL 150 transparent with a 25 cm roller sleeve and then rework it in a criss-cross pattern using a 50 cm wide roller sleeve.

6) Apply a floor finish:
- StoDivers P 105 or StoDivers P 120 (optional)
- Apply the product evenly and thinly. Tools: damp mop

- Leave the product to dry for 20–30 minutes.
- Apply the product crosswise to the previous application cycle.
- consumption: approx. 30-50 ml/m², depending on the application cycle
- Completely cured: at +10 °C after 7 days, at +23 °C after 5 days

Note:
- It is very important to observe the specified drying times between application cycles. Depending on the expected stress, several application cycles are necessary.
- Discolouring can occur depending on the type of chemicals which do not, however, impair the technical function of the coating.

Application:
- Avoid direct sunlight, high temperatures, and draughts during application.

Application of water-based coating systems:
- Ensure sufficient ventilation. Prevent draughts.
- Different material application, too high humidity, and low temperatures can lead to visual defects, e.g. differences in the gloss levels. (skinning/seams/visible blade traces)

Note:
When applying dark colour shades, the surface of the coating may sometimes show white spots or streaks after curing.
These disappear again after applying the subsequent floor finish or sealing coat and are therefore neither a visual nor technical defect.

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 tools with water immediately after use.
Notes, recommendations, special information, miscellaneous	1) Observe the general application instructions: - see www.stocretec.de, Products - see technical manual, notes 2) Observe the implementation instructions. Declaration of performance, CE marking: - declaration of performance: see www.stocretec.de

Delivery

Colour shade	wide colour shade variety, RAL colour fan, StoColor System – limited colour choice

Packaging	pail and tin		
	Article number	**Name**	**Container**
	01496/001	StoPox WB 100 Set tinted	22 kg set

Storage

Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight.
Storage life	The product quality is best guaranteed in its unopened original container until its shelf life has expired. This information is included in the batch number on the container. Explanation of batch nos.: digit 1 = last digit of the year, digits 2 + 3 = calendar week, example: 6450013223 - storage life ends at week 45 in 2026 See product packaging

Identification

Product group	Water-based coating

Safety	This product is subject to compulsory labelling in accordance with the current EU regulation. You will receive an EU Safety Data Sheet with your first order. Please observe the information regarding the handling of the product, its storage, and disposal. Handling epoxy resins: “Praxisleitfaden für den Umgang mit Epoxidharzen”, (Practical guide for handling epoxy resins) and test report: “Prüfbericht zur Schutzwirkung von acht Chemikalienschutzhandschuhen gegenüber EP-Beschichtungen” (Test report on the protective effect of eight chemical protective gloves against EP coatings), Gloves: “Handschuhe für den Umgang mit lösemittelfreien Epoxidharzen” (Gloves for handling solvent-free epoxy resins), and Protective gloves: “Die richtige Anwendung von Schutzhandschuhen” (The correct use of protective gloves) Https://www.bgbau.de/themen/sicherheit-und-gesundheit/gefahrstoffe/umgang-mit-epoxidharzen/ Published by: BG BAU - Berufsgenossenschaft der Bauwirtschaft Hildegardstraße 29/30, 10715 DE-Berlin Tel. (+49) 30 85781-0, Fax. (+49) 800 6686688-37400, www.bgbau.de Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung" Published by:

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Special notes

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.
Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination 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.

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