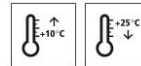


Technical Data Sheet

StoPox WB 110

EP coating, water-based, electrically conductive,
low-emission



Characteristics

- Area of application**
- interior
 - on floors
 - on cementitious substrates in contact with the ground
 - on magnesite screeds, calcium sulphate screeds
 - as a coloured coating for industrial flooring
 - as a component of StoFloor Cleanroom system 7

- Properties**
- electrically conductive in accordance with EN 1081, EN 61340-4-1
 - mechanical resistance
 - low VOC content
 - very good water vapour permeability: class I

- Appearance**
- silk matt

- Information/notes**
- 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	1.85 - 1.97 g/cm ³	

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

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- 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 +8 °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

1) 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.

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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.

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, max. 300 rpm
Mixing time: at least 3 minutes
- 4) Ensure that the mixing equipment covers the bottom and the rim areas 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 (unfilled)	1.9	kg/m ²
	recommended material application	3.0 - 4.0	kg/m ²

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	1) Prepare the substrate.
	2) Priming: StoPox WG 100
	3) Levelling coat: StoPox WG 100
	4) Self-adhesive conductive strip: StoDivers LB 100
	5) Apply a conductive layer: StoPox WL 110
	6) Apply a coating: StoPox WB 110
	7) Apply a floor finish: StoDivers P 110

Application

- 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

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3) Optionally, apply a levelling filler:

- StoPox WG 100

- filling the product: 1 : 0.5 parts by weight, StoPox WG 100 : StoQuarz 0.1-0.5

Apply the product. Tools: rubber squeegee

- Trowel off the material leaving a thin layer. Tools: smoothing trowel

- Consumption of StoPox WG 100 filled: approx. 0.5-1.0 kg/m²

- Over-coatable: at +20 °C after approx. 8-10 h

Note:

- if pore sealing is not achieved by the filler and levelling coat, the remaining pores must be closed, e.g. with StoPox WG 100, StoDivers 100

4) Self-adhesive conductive strip:

- StoDivers LB 100

- Affix the product to the prepared substrate.

- Pull the free ends vertically up the wall surface and connect to ground.

- Overlap the joints of the conductive strip by 5 cm.

- Optional: Connection to ground is also possible using the conducting set.

product: StoDivers LS

Note:

- A connection to ground is required for every 100 m² of surface.

- The number and location of the groundable points must be determined by an electrician.

- Only an electrician is permitted to ground connections of the conductive strips or conducting set.

5) Apply a conductive layer:

- StoPox WL 110

- Dilute with approx. 10 % water.

- Apply the product evenly. Tools: short-pile roller sleeve

- consumption: approx. 0.12-0.15 kg/m²

Note:

- Check the resistance to ground before applying the top coat. This ensures the functionality of the conductive layer.

- Resistance to ground: StoPox WL 110 maximum 50 kiloohm

6) Apply a coating:

- StoPox WB 110

- Apply the product. Tools: notched trowel, squeegee: with V-notch, rubber squeegee with coarse notching

- Spread the product evenly and rework with a roller. Tools: spiked roller sleeve

- Consumption: approx. 1.8-2.0 kg/m² and mm layer thickness

7) Apply a floor finish:

- StoDivers P 110

- Apply the product evenly and thinly. Tools: damp mop

- Leave the product to dry for approx. 1 h.

- Apply the product crosswise to the previous application cycle.

- Consumption: approx. 40-80 ml/m²

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Note:

- For weekly maintenance cleaning, add approx. 5 % StoDivers P 110 to the last bucket of clean mop water.

Application:

- Avoid direct sunlight, high temperatures, and draughts during application.
- Measure the dissipation capability at the earliest 1 week after carrying out the coating work.

UV stress, colour shade deviation:

- Any yellowing which occurs under UV stress does not impair the technical properties.
- The fibres visible have been inserted to guarantee electrical conductivity; they are not a visual defect.
- Exposure of the chemicals may cause discolouration, which does not, however, impair the technical function of the coating.

Personal protection requirements:

- for requirements regarding protection of persons in accordance with VDE 0100-410, see the coating systems in the current StoCretec brochure: conductive floor coating systems

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.

Drying, curing, ready for next coat

Time until the area has fully cured:
 at +23 °C: after 5 days
 at +10 °C: after 7 days
 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

Observe the general application instructions:
 - see www.stocretec.de, Products
 - see technical manual, notes

Declaration of performance, CE marking:

- declaration of performance: see www.stocretec.de
 - The abrasion resistance specified in the declaration of performance refers to the smooth, not scattered covering.
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Delivery

Colour shade RAL colour fan, wide colour shade variety, limited tintability in accordance with the StoColor System

Packaging pail and tin

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: 2450013223 - storage life ends at week 45 in 2022
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/>

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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"

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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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