Building with conscience.

Technical Data Sheet

StoPox WB 113

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

Characteristics

Area of application

- Interior
- On floor
- On cementitious substrates in contact with the ground
- On magnesite screeds, calcium sulphate screeds
- As a coloured coating for ESD surfaces

Properties

- Volume-conductive
- Fulfils requirements in accordance with EN 61340-5-1 and ANSI/ESD S20.20- 2014
- Do not use carbon fibres
- Conductivity depends only to a very small degree on the relative humidity
- Very good water vapour permeability :class I
- Low VOC content

Appearance

- Silk matt
- Fibre-free

Information/notes

- Product is in accordance with EN 1504-2

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Criteria	Standard / test specification	Value / Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Water vapour permeability class	EN ISO 7783	Class I (high)	Classification in accordance with DIN EN 1504-2

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

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	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	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, 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. 6. Add 0.5 l of clean water to the mixture and mix again.

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Consumption

Type of application	Approx. consumption
Per mm wet layer thickness	2.0 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

1. Prepare the substrate.
2. Priming: StoPox WG 100
3. Apply a levelling filler: StoPox WG 100
4. Self-adhesive conductive strip: StoDivers LB 100
5. Apply a conductive layer: StoPox WL 110, for requirements in accordance with DIN VDE 0100-410: StoPox WL 118
6. Apply a coating: StoPox WB 113
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. 0.2-0.3 kg/m², depending on the roughness of the substrate
3. Optionally, apply a levelling filler:
   - 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 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.

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5. Apply a conductive layer:
   - StoPox WL 110, StoPox WL 118 for requirements in accordance with DIN VDE 0100-410 - Dilute with approx. 10 % water.
   - Apply the product evenly. Tools: nylon roller, pile height: 13-14 cm
   - Consumption: approx. 0.12-0.15 kg/m²

   Note:
   - Ensure that the functionality of the applied conductive layer is checked by measuring the resistance to ground before applying the subsequent top coat. When using StoPox WL 110, the resistance to ground must not exceed 50 kiloohms. If StoPox WL 118 is used, the resistance to ground must not exceed 1 megaohm.

6. Apply a coating:
   - StoPox WB 113
   - 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

7. Apply a floor finish:
   - StoDivers P 110
   - Apply the product evenly and thinly. Tools: damp mop
   - Leave the product to dry for approx. 3 h.
   - Apply the product crosswise to the previous application cycle.
   - Consumption: approx. 40-80 ml/m²

   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.

   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	Reworking time: At +10°C: approx. 28 hours At +20°C: approx. 18 hours At +30°C: approx. 14 hours
Cleaning the tools	Tools must be cleaned immediately after use with clean water.
Notes, recommendations, special information, miscellaneous	Please consult the local sales office for further information and any site assistance required.

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Delivery			
Colour shade	Limited colour choice		
Packaging	**Article number**	**Name**	**Packing**
	04880/004	StoPox WB 113 Set tinted	22 kg set (pail and tin)
Storage			
Storage conditions	Store in cool dry conditions; avoid direct sunlight.		
Storage life	The quality of the product in its original container is guaranteed until the maximum storage life has expired. The storage life information is included in the batch number on the container. Explanation of batch no.: Digit 1 = last digit of the year Digits 2 + 3 = calendar week Example: 6450013223 - storage life ends week 45 in 2026		
Identification			
Product group	Coating		
Safety	Please refer to Safety Data Sheet.		
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 www.sto-sea.com.		

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