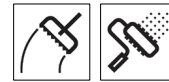


# Technical Data Sheet

## StoPox WHG Deck 110

Epoxy coating, tested and approved water conservation systems, electrically conductive



### Characteristics

- Area of application**
- Interior and exterior areas
  - As a coloured, electrically conductive coating for industrial flooring (areas for the production, treatment, and use of water-polluting substances) exposed to mechanical and chemical stress
  - ESD-areas requiring cleanroom systems
  - As a top coat in the StoCretec WHG System 2 (Z-59.12.311)

### Properties

- Very high resistance to chemicals
- Electrically conductive (TRGS 727)
- Crack-bridging up to 0.4 mm (in accordance with the national technical approval)
- Suitable for vehicle traffic with Vulkollan and polyamide wheels

### Information/notes

- Product is in accordance with EN 13813
- For water protection in accordance with § 62 German Federal Water Act (WHG)

### Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Density	EN ISO 2811	1.16 - 1.24 g/cm <sup>3</sup>	Mixture
Adhesion strength	ASTM D7234	> 1.5 N/mm <sup>2</sup>	
Shore D hardness	ASTM D2240	65 - 69	
Viscosity	EN ISO 3219	1,160 - 1,740 mPa.s	

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

The substrate must be sound, dry, load bearing and free from native and foreign substances that have a separating effect. Remove less strong layers and laitance.

The maximum moisture content of the substrate should not exceed 4% by weight measured with the CM device.

Substrate temperature greater than +8°C and 3 K above dew point.

Average adhesion strength >1.5 N/mm<sup>2</sup>. Adhesion strength of the single smallest value 1.0 N/mm<sup>2</sup>

#### Preparations

Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.

### Application

#### Application temperature

Lowest application temperature: +8°C  
 Maximum approved relative humidity 75%  
 Highest application temperature: +30°C  
 Maximum approved relative humidity 80%

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<b>Time for application</b>	At +10°C : approx. 60 minutes At +23°C : approx. 25 minutes At +30°C : approx. 15 minutes	
<b>Mixing ratio</b>	Component A : Component B = 100.0 : 50.0 parts by weight	
<b>Material preparation</b>	<p>Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions.</p> <p>Stir Component A, then add all of Component B. Mix thoroughly with a slow-running paddle mixer (max. 300 rpm) until a homogeneous, streak-free compound develops.</p> <p>It is also vital to stir thoroughly at the sides and the bottom in order to evenly distribute the hardener. Mixing time at least 3 minutes.</p> <p>Do not apply from the delivery container! After mixing, transfer the material into a clean container and stir it thoroughly once again. The temperature of the individual components must be min. +15°C when mixing.</p>	
<b>Consumption</b>	Type of application	Approx. consumption
	As a top coat (up to 0.4 mm crack bridging)	2.5 kg/m <sup>2</sup>
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.		
<b>Coating build-up</b>	<p><b>StoCretec WHG System 2</b></p> <ol style="list-style-type: none"> <li>1) Substrate preparation</li> <li>2) Prime coating of StoPox WHG Grund 100</li> <li>3) Scratch coat of StoPox WHG Grund 100 (optional, e.g roughness &gt; 0.5mm)</li> <li>4) Installation of StoDivers LS</li> <li>5) Bridging of joints (optional)</li> <li>6) Conductive layer of StoPox WHG Leit 110</li> <li>7) Coating of StoPox WHG Deck 110</li> </ol>	
<b>Application</b>	<p><b>StoCretec WHG System 2 (Z-59.12-311) 1)</b></p> <ol style="list-style-type: none"> <li>1) Substrate preparation</li> <li>2) Prime coating Flood apply StoPox WHG Grund 100 with a rubber squeegee and distribute evenly by rolling down to ensure complete sealing of all substrate pores. Avoid the formation of puddles. Consumption: approx. 0.2 - 0.3 kg/m<sup>2</sup>, depending on substrate and application conditions. Do not scatter beforehand.</li> <li>3) Scratch coat (optional, for large substrate roughness) For very rough substrate fill StoPox WHG Grund 100 with a mixture 1:1 to 1:3 parts by weight of StoFiller 60/100 and StoFiller SM 100 (50:50 pbw). Apply the material using a smoothing trowel / squeegee with triangular notching, and de-air with a spiked roller. Add StoDivers ST thixotropic additive if required. Consumption of StoPox WHG Grund 100: approx. 0.4 - 0.5 kg/m<sup>2</sup>/mm layer thickness Consumption of Sto Filler: approx. 0.4 - 1.5 kg/m<sup>2</sup>/mm layer thickness Consumption of ready filled mixture: approx.. 1.8 kg/m<sup>2</sup>/mm coating thickness Determine the exact amount of thixotropic additive required at the project, depending on the temperature and slope of the surface.</li> </ol>	

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- 4) Installation of conductive set StoDivers LS  
Install and connect to ground using the StoDivers LS (conducting set). A connection to ground is required for every 100 m<sup>2</sup> of surface. No surface point should be more than 10 m away from a connection point. The connection points should be distributed as evenly as possible. If needed, bridge with conductive ribbon StoDivers LB 100.  
Only an electrician is permitted to ground the conducting set.
- 5) Bridging of joints (optional)  
For surfaces that are separated from each other by joints, ground the areas separately or make an electrical connection between the adjacent areas.  
To bridge the areas, lay a loop-shaped copper cable onto the prime coating or the existing plastic coating, fan out both ends and fix them using self-adhesive copper strips.
- 6) Conductive layer of StoPox WHG Leit 110  
Dilute StoPox WHG Leit 110 with approx. 10 % water and apply it using a rubber squeegee or roller.  
Consumption: approx. 0.15 - 0.2 kg/m<sup>2</sup>  
Check the functionality of the applied conductive layer by measuring the resistance to ground before applying the subsequent top coat. The resistance to ground may not exceed 5 x 10<sup>4</sup> Ohms
- 7) Coating of StoPox WHG Deck 110  
Apply StoPox WHG Deck 110 with a squeegee. Ensure the material is evenly spread and immediately de-air in a criss-cross pattern using a spiked roller (no waiting time).  
Consumption: approx. 2.5 kg/m<sup>2</sup>  
Observe the consumption quantities and check at regular intervals during coating.

#### Application on vertical surfaces:

- 1) Filler and levelling coat  
StoPox WHG Grund 100, filling degree 1 : 1 parts by weight of StoFiller 60/100 and StoFiller SM 100, with addition of approx. 4% StoDivers ST.  
Consumption of StoPox WHG Grund 100: approx. 0.5 kg/m<sup>2</sup>  
Consumption of StoFiller 60/100: approx. 0.25 kg/m<sup>2</sup>  
Consumption of StoFiller SM 100: approx. 0.25 kg/m<sup>2</sup>
- 2) Conductive layer consisting of StoPox WHG Leit 110, approx 0.15 kg/m<sup>2</sup>
- 3) Coating with StoPox WHG Deck 110 and up to max. 4% of StoDivers ST

#### Note:

Full mechanical and chemical loading capacity: after 7 days.

Depending on exposure to chemicals, discolouration can occur. These do not, however, impair the technical function of the coating. Slight deviations in the colour shade are possible between different batches.

In the case of light colour shades, the conductive fibres are more or less visible in the finishing coat after curing.

It is possible that some yellowing might occur in interior or exterior areas exposed to direct sunlight. Any yellowing which occurs under UV stress does not have any effect on the technical properties of the coating.

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**Drying, curing, ready for next coat**

Reworking time:  
At +10°C: approx. 24 hours  
At +23°C: approx. 18 hours  
At +30°C: approx. 12 hours

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<b>Cleaning the tools</b>	Tools must be cleaned immediately after use with cleaning solvent.
<b>Notes, recommendations, special information, miscellaneous</b>	Please consult the local sales office for further information and any site assistance required.

#### Delivery

<b>Colour</b>	Limited colour selection
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<b>Packaging</b>	<b>Name</b>	<b>Packing</b>
	StoPox WHG Deck 110	30 kg set

#### Storage

<b>Storage conditions</b>	Store in cool dry conditions; avoid direct sunlight.
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<b>Storage life</b>	This product has a shelf life of 12 months from the manufacturing date.
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#### Identification

<b>Product group</b>	Electro-Static Discharge (ESD)
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<b>Safety</b>	Please refer to Safety Data Sheet.
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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 [www.sto-sea.com](http://www.sto-sea.com).

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\*Product images may differ from the actual product.