

# Technical Data Sheet

## StoPox WHG Leit 110

Epoxy conductive layer, water-based, tested and approved water conservation systems



### Characteristics

- Area of application**
- For interior and exterior application on floor surfaces
  - On floor areas
  - As a conductive intermediate coat in StoCretec WHG System 2 (Z-59.12-311), StoCretec WHG System 8 (Z-59.12-409)

- Properties**
- Excellent horizontal conductivity
  - Very good bond to the subsequent coating
  - Very good adhesion to the substrate
  - Low VOC emissions

- Appearance**
- Blackish

- Information/notes**
- 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	1.20 - 1.40 g/cm	Mixture undiluted
Adhesion strength	ASTM D7234	> 1.5 N/mm <sup>2</sup>	

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: +10°C  
 Highest application temperature: +30°C  
 Maximum approved relative humidity 75%

- Time for application**
- At +10°C : approx. 120 minutes  
 At +20°C : approx. 60 minutes  
 At +30°C : approx. 45 minutes

- Mixing ratio**
- Component A : Component B = 100.0 : 20.0 parts by weight

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<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>	<table border="1"> <thead> <tr> <th>Type of application</th> <th>Approx. consumption</th> </tr> </thead> <tbody> <tr> <td>As a conductive intermediate coat</td> <td>0.15 - 0.2 kg/m<sup>2</sup></td> </tr> </tbody> </table> <p>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.</p>	Type of application	Approx. consumption	As a conductive intermediate coat	0.15 - 0.2 kg/m <sup>2</sup>
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As a conductive intermediate coat	0.15 - 0.2 kg/m <sup>2</sup>				
<b>Coating build-up</b>	<p><b>StoCretec WHG System 2 or 8</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) Conductive layer of StoPox WHG Leit 110</li> <li>6) Coating of StoPox WHG Deck 110 or StoPox WHG Deck 115</li> </ol>				
<b>Application</b>	<p><b>StoCretec WHG System 2 (Z-59.12-311), StoCretec WHG System 8 (Z-59.12-409) 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 roughness depths &gt; 0.5mm) 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> <li>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.</li> </ol>				

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- 5) 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.
- 6) Coating of StoPox WHG Deck 110 or StoPox WHG Deck 115  
 (in accordance with the Technical Data Sheets)

Note:  
 Ensure the conductive layer is not soiled before overcoating.  
 Ensure sufficient ventilation when applying water-based coating systems. However, avoid draughts.  
 Different layer thicknesses, too high humidity, and too low temperatures (< +10 °C) can lead to visual and functional defects.  
 Avoid direct sunlight, high temperatures, and lack of humidity, because these result in curing too quickly (skin formation/seams/visible squeegee marks).

<b>Drying, curing, ready for next coat</b>	Reworking time: At +10°C: approx. 24 hours At +23°C: approx. 12 hours At +30°C: approx. 8 hours
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<b>Cleaning the tools</b>	Tools must be cleaned immediately after use with clean water.
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<b>Notes, recommendations, special information, miscellaneous</b>	Please consult the local sales office for further information and any site assistance required.
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### Delivery

Packaging	Name	Packing
	StoPox WHG Leit 110	12 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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### StoPox WHG Leit 110

#### 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.