Technical Data Sheet

StoPox WHG Leit 110

EP conductive layer, water-based, tested and approved water protection systems

Characteristics

Area of application

- interior and exposed to the weather
- on floors
- as a conductive intermediate coat in StoCretec WHG System 2 (Z-59.12-311), StoCretec WHG System 8 (Z-59.12-409)

Properties

- good bond to the subsequent coating
- very good horizontal conductivity
- very good adhesion to the substrate

Information/notes

- for water protection in accordance with § 62 German Federal Water Act (WHG)

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Density (mixture 23 °C)	EN ISO 2811	1.20 - 1.40 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

The substrate must be dry, load-bearing, and free from native and foreign release agents.
Remove less strong layers and laitance.

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. The moisture content may not exceed 4 CM per cent for concrete qualities up to C30/37 and max. 3 CM per cent for C35/45 concrete, measured with a calcium carbide meter.

Substrate temperature higher than +8 °C and 3 K above dew point.
Average bond strength: 1.5 N/mm²
Bond strength, lowest single value: 1.0 N/mm²

Preparations

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

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Application	
Application temperature	Lowest application temperature: +10 °C and max. 75 % relative humidity. Highest application temperature: +30°C and a max. of 75% relative humidity
Time for application	At +12 °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
Material preparation	Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions. 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. It is also vital to stir thoroughly at the sides and the bottom in order to evenly distribute the hardener. Mixing time is at least 3 minutes. After mixing, pour the compound into a clean container and mix again. Do not apply from the delivery container! The temperature of the individual components must be at least +15 °C when mixing.
Consumption	Type of application: as a conductive intermediate coat — Approx. consumption: 0.12 - 0.2 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	StoCretec WHG System 2 and/or 8 1) Prime coating of StoPox WHG Grund 100 or StoPox WHG Grund 105 2) Scratch coat of StoPox WHG Grund 100 or StoPox WHG Grund 105 (optional) 3) Laying the StoDivers LB 100 conductive strips and grounding them. 4) Conductive layer of StoPox WHG Leit 110 5) Coating of StoPox WHG Deck 110 or StoPox WHG Deck 115
Application	StoCretec WHG System 2 (Z-59.12-311), StoCretec WHG System 8 (Z-59.12-409) 1) Substrate preparation 2) Prime coating Flood apply StoPox WHG Grund 100 or StoPox WHG Grund 105 with a foam

rubber squeegee until the substrate is totally free of pores, and then evenly spread it by rolling.
Avoid the formation of puddles.

Consumption: approx. 0.3 - 0.6 kg/m², depending on the roughness of the substrate

Rework in accordance with the time period indicated in the national technical approval. Do not scatter beforehand.

3) Scratch coat (optional, for large substrate roughness)
Fill StoPox WHG Grund 100 or StoPox WHG Grund 105 with a mixture 1:1 parts by weight of StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm. Apply the material using a smoothing trowel or squeegee with triangular notching, and de-air with a spiked roller.
Add StoDivers ST thixotropic additive if required.

consumption: StoPox WHG Grund 100 StoPox WHG Grund 105 approx. 0.6 - 0.7 kg/m²/mm layer thickness
consumption: quartz sand mixture StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm approx. 0.6 - 0.7 kg/m² per mm layer thickness

Determine the exact amount of thixotropic additive required at the project, depending on the temperature and slope of the surface.

4) Lay StoDivers LB 100 conductive strips and connect them to ground
Affix self-adhesive copper strips (StoDivers LB 100) onto the cured prime coating at intervals of max. 10 m. They are then connected to ground via copper cables (copper strands in accordance with VDE 0165). We recommend lightly sanding these areas in order to achieve optimal bonding.

5) Conductive layer of StoPox WHG Leit 110 (in accordance with the Technical Data Sheets)
Dilute StoPox WHG Leit 110 with approx. 10 % water, apply it using a foam rubber squeegee or roller, and then re-roll.

Consumption: approx. 0.15 - 0.2 kg/m²

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 50 kiloohms.

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

Note:
Observe the information on consumption, application, and execution in the national technical approvals!

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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 defects. Avoid direct sunlight, high temperatures, and lack of humidity, because these result in curing too quickly (skin formation/seams/visible squeegee marks).

Drying, curing, ready for next coat	Reworking time: At +10°C: approx. 24 h At +23°C: approx. 12 h At +30°C: approx. 8 h
Cleaning the tools	Clean with water.
Notes, recommendations, special information, miscellaneous	General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.

Delivery

Colour shade	black
Packaging	pail and tin

Article number	Name	Container
03735/001	StoPox WHG Leit 110 Set	12 kg set

Storage

Storage conditions	Store in dry and frost-free conditions. Avoid direct sunlight.
Storage life	In the original container until ... (see packaging).

Certificates/approvals

Z-59.12-311	StoCretec WHG System 2 National technical approval
Z-59.12-409	StoCretec WHG System 8 National technical approval

Identification

Product group	Water-based coating material

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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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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.

Technical Data Sheet

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