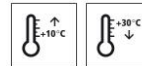


Technical Data Sheet

StoPox WL 113

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



Characteristics

- Area of application**
- interior
 - on floor areas
 - for mineral substrates such as concrete and cementitious screed
 - on magnesia and calcium sulphate screed
 - on old and new conductive and non-conductive epoxy resin coatings
 - as an electrically conductive sealing coat subject to medium stress
 - as a component of StoFloor Cleanroom system 7

- Properties**
- very good adhesion to the substrate
 - electrically conductive (EN 61340-4-1, EN 61340-4-5, EN 61340-5-1)
 - conductivity largely does not depend on relative humidity
 - low in VOC emissions
 - lightly textured surface

- Appearance**
- gloss

- Information/notes**
- product is in accordance with EN 1504-2

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	EN 1542	> 2,0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	3.000 - 4.600 mPa.s	Mixture undiluted
Density (mixture 23 °C)	EN ISO 2811	1,34 - 1,43 g/cm ³	
Abrasion resistance according to Taber device	EN ISO 5470-1	< 70 mg	CS 10/1000U/1000g
Water vapour permeability class	EN ISO 7783	Class II (medium)	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

Technical Data Sheet

StoPox WL 113

Requirements

Requirements on the concrete substrate:
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 +10 °C and 3 K above dew point.

Average bond strength: 1.5 N/mm²

Bond strength, lowest single value: 1.0 N/mm²

Preparations

Substrate preparation:

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

Application

Application temperature

lowest application temperature: +10 °C

max. approved relative humidity: 75 %

Highest application temperature: +30 °C

max. approved relative humidity: 85 %

Time for application

At +10 °C: approx. 180 minutes

At +20 °C: approx. 90 minutes

at +30 °C: approx. 60 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 at least 3 minutes.

After mixing, transfer into a clean container and stir again thoroughly.

Do not apply from the delivery container!

The temperature of the individual components must be min. +15 °C when mixing.

Technical Data Sheet

StoPox WL 113

Consumption	Type of application	Approx. consumption
	as a sealing coat (undiluted, for each application cycle)	0,15 - 0,25 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	Sealing mineral substrates 1) Substrate preparation 2) Prime coating of StoPox WL 113 3) StoDivers LS 4) Sealing coat of StoPox WL 113 (1 – 2 application cycles)	
	sealing coat for electrically conductive and non-electrically conductive epoxy resin coatings 1) Substrate preparation 2) Sealing coat of StoPox WL 113 (1 – 2 application cycles)	
Application	Sealing mineral substrates 1) Substrate preparation 2) Prime coating of StoPox WL 113 StoPox WL 113 can be diluted with up to 20 % water depending on the substrate and application conditions. coverage: approx. 0.15–0.25 kg/m ² (undiluted) 3) StoDivers LS in accordance with installation instructions 4) Sealing Manual application: StoPox WL 113 can be diluted with up to 15 % water. Distribute the material using a Sto rubber squeegee (2 mm notching) without applying much pressure, then rework it with a nylon roller (Sto-Lackierwalze Nylon RS 8 or Sto Großflächenwalze Nylon RS 8; Sto tool catalogue) in a criss-cross pattern. Apply the material evenly. coverage: approx. 0.15–0.25 kg/m ² (undiluted)	

Technical Data Sheet

StoPox WL 113

If using airless equipment, material consumption increases by approx. 10 to 20 %.

Airless application:

The following requirements must be fulfilled if the material is sprayed using airless equipment:

Machine pressure: at least 150 bar

Nozzle size: 0.023" to 0.043" (0.584 mm to 1.092 mm), e.g. nozzle 52300, 61700, or 62500 from Graco

Conveying output: min.3.8 l/min

Sprayer: e.g. Graco TexSpray Mark V

Note: Depending on the colour shade and substrate, 1 - 2 application cycles may be required to achieve a homogeneous appearance.

Avoid direct sunlight, high temperatures, and draughts during application.

sealing coat for electrically conductive and non-electrically conductive epoxy resin coatings

1) Substrate preparation

(E.g. initial cleaning with StoDivers GR and cleaning pad)

2) Sealing

Manual application:

StoPox WL 113 can be diluted with up to 15 % water. Distribute the material using a Sto rubber squeegee (2 mm notching) without applying much pressure, then rework it with a nylon roller (Sto-Lackierwalze Nylon RS 8 or Sto Großflächenwalze Nylon RS 8; Sto tool catalogue) in a criss-cross pattern.

Apply the material evenly.

coverage: approx. 0.15–0.25 kg/m² (undiluted)

Airless application:

The following requirements must be fulfilled if the material is sprayed using airless equipment:

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Note: Depending on the colour shade and substrate, 1 - 2 application cycles may

Technical Data Sheet

StoPox WL 113

be required to achieve a homogeneous appearance.

Note:

For requirements regarding protection of persons in accordance with VDE 0100-410, see the coating systems in the current StoCretec brochure on conductive floor coating systems. If using office chairs on the floor, these must be equipped with type "W" castors in accordance with DIN EN 12529. Avoid direct sunlight, high temperatures, and draughts during application.

The fillers used to guarantee conductivity may cause roller marks to remain visible despite working in a criss-cross pattern.

We therefore recommend using airless equipment in order to achieve visually homogenous surfaces.

Observe the required occupational safety measures.

The layer thickness for sealing coats is normally < 0.5 mm and decreases as a result of mechanical use. This should be taken into account with regard to the required service life.

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, e.g. differences in the gloss levels.

Roller marks cannot be completely avoided due to manual application of the sealer.

Drying, curing, ready for next coat

at +10 °C: approx. 24 h
at +20 °C: approx. 16 h
at +30 °C: approx. 12 h

Cleaning the tools

Clean with water immediately after use. Hardened material can only be removed mechanically.

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

limited colour choice, RAL colour fan, and StoColor System, approx. RAL 7001, 7004, 7023, 7030, 7032, 7035, 7036, 7037, 7038, 7040, 7042, 7045, 7046 and ca. RAL 1019, 1020, 3003, 4007, 4009, 5007, 5009, 5014, 5024, 6011, 6028, 6033, 6034, 7005, 7010, 7015, 7016, 7024, 7026, 7031, 7039, 8002, 8017, 9005

Packaging

pail and tin

Technical Data Sheet

StoPox WL 113

	Article number	Name	Container
	04910/003	StoPox WL 113 Set tinted	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).		

Identification	
Product group	Sealing coat
GISCODE	RE90

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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Technical Data Sheet

StoPox WL 113

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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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