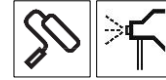


Technical Data Sheet

StoPox WL 113

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



Characteristics

Area of application	<ul style="list-style-type: none"> ▪ Interior ▪ On floor areas ▪ For mineral substrates such as concrete and cementitious screed ▪ On magnesite and calcium sulphate screeds ▪ On old and new conductive epoxy resin coatings ▪ As an electrically conductive sealing coat subject to medium stress
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Properties	<ul style="list-style-type: none"> ▪ 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
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Appearance	<ul style="list-style-type: none"> ▪ Gloss
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Information/notes	<ul style="list-style-type: none"> ▪ Product is in accordance with EN 1504-2
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Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Density	EN ISO 2811	1.34 - 1.43 g/cm ³	
Adhesion strength	ASTM D7234	> 1.5 N/mm ²	
Viscosity	EN ISO 3219	3,000 - 4,600 mPa.s	
Abrasion resistance according to Taber device	EN ISO 5470-1	< 72 mg	CS 10/1000 cycle/1000g
Water vapour permeability class Classification in accordance with DIN EN 1504-2	EN ISO 7783	Class II (medium)	

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	<p>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.</p> <p>Substrate temperature greater than +8°C and 3 K above dew point.</p> <p>Average adhesion strength >1.5 N/mm². Adhesion strength of the single smallest value 1.0 N/mm²</p>
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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
 Highest application temperature: +30°C
 Maximum 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.
 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.

Consumption	Type of application	Approx. consumption
	As sealer	0.2 - 0.3 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) Installing of StoDivers LS
- 4) Sealing coat of StoPox WL 113 (2 application cycles)

Sealing coat for electrically conductive epoxy resin coatings

- 1) Substrate preparation
- 2) Sealing coat of StoPox WL 113 (2 application cycles)

Sealing coat for non-conductive epoxy resin coatings

- 1) Substrate preparation
- 2) Installing of StoDivers LS
- 3) Sealing coat of StoPox WL 113 (2 application cycles)

Sealing coat for wall applications

- 1) Substrate preparation
- 2) Sealing coat of StoPox WL 113 (2 application cycles)

Application

Sealing mineral substrates

- 1) Substrate preparation
- 2) Prime coating of StoPox WL 113 can be diluted with up to 20% water depending on the substrate and application conditions.
 Consumption: approx. 0.15 - 0.25 kg/m² (undiluted)
- 3) StoDivers LS in accordance with installation instructions

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- 4) Sealing
 Manual application:
 StoPox WL 113 can be diluted with up to 15% water. Distribute the material using a rubber squeegee and then roll it with a nylon roller (Sto-Varnish Roller Nylon RS13 or Sto-Large-Area Roller Nylon RS13). Apply the material evenly.
 Consumption: approx. 0.2 - 0.3 kg/m² (undiluted)

Sealing coat for electrically conductive epoxy resin

- 1) Substrate preparation
- 2) Sealing
 Manual application:
 StoPox WL 113 can be diluted with up to 15% water. Distribute the material using a rubber squeegee and then roll it with a nylon roller (Sto-Varnish Roller Nylon RS13 or Sto-Large-Area Roller Nylon RS13). Apply the material evenly.
 Consumption: approx. 0.2 - 0.3 kg/m² (undiluted)

Sealing coat for non-conductive epoxy resin coatings

- 1) Substrate preparation
- 2) StoDivers LS in accordance with installation instructions
- 3) Sealing
- 4) Manual application:
 StoPox WL 113 can be diluted with up to 15% water. Distribute the material using a rubber squeegee and then roll it with a nylon roller (Sto-Varnish Roller Nylon RS13 or Sto-Large-Area Roller Nylon RS13). Apply the material evenly.
 Consumption: approx. 0.2 - 0.3 kg/m² (undiluted)

Sealing coat for wall applications

- 1) Substrate preparation
- 2) Sealing
 Manual application:
 StoPox WL 113 can be diluted with up to 10% water. Apply the material using a nylon roller (Sto-Varnish Roller Nylon RS13 or Sto-Large-Area Roller Nylon RS13).
 Apply the material evenly.
 Consumption: approx. 0.2 - 0.3 kg/m² (undiluted)

Note:

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)

Conveying output: min.3.8 l/min

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

Depending on the colour shade and substrate, additional application cycles may be required to achieve a homogeneous appearance.

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

Drying, curing, ready for next coat

Reworking time :
 At +10°C : approx. 24 hours
 At +20°C : approx. 16 hours
 At +30°C : approx. 12 hours

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Cleaning the tools	Tools must be cleaned immediately after use with cleaning water.
Notes, recommendations, special information, miscellaneous	<p>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.</p> <p>If using office chairs on the floor, these must be equipped with type "W" castors in accordance with DIN EN 12529.</p> <p>The fillers used to guarantee conductivity may cause roller marks to remain visible, due to manual application of the sealer despite working in a criss-cross pattern. We therefore recommend using airless equipment in order to achieve visually homogenous surfaces.</p> <p>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.</p> <p>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.</p> <p>Please consult the local sales office for further information and any site assistance required.</p>

Delivery

Colour	Basic range (PG 11): RAL 7001, 7004, 7023, 7030, 7032, 7035, 7036, 7037, 7038, 7040, 7042, 7044, 7045, 7046 Special range (PG 12): RAL 1019, 4009, 5009, 5024, 6011, 6021, 6032, 7010, 7011, 7015, 7016, 7031, 7039, 9005
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Packaging	Name	Packing
	StoPox WL 113	12 kg set

Storage

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

Identification

Product group	Electro-Static Discharge (ESD)
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Safety	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.

Technical Data Sheet

StoPox WL 113

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*Product images may differ from the actual product.