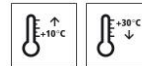


Technical Data Sheet

StoPox WL 213

EP water-based coating material, electrically conductive, silk matt



Characteristics

Area of application

- interior
- on floors
- 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

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 VOC content, in accordance with the criteria of the Committee for Health-related Evaluation of Building Products (Germany)
- lightly textured surface

Appearance

- silk matt

Information/notes

- product is in accordance with EN 13813

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	EN 1542	> 2,0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	2.200 - 3.400 mPa.s	Mixture undiluted
Density (mixture 23 °C)	EN ISO 2811	1,29 - 1,37 g/cm ³	
Abrasion resistance according to Taber device	EN ISO 5470-1	< 40 mg	CS 10/1000U/1000g
Water vapour permeability class	EN ISO 7783	Class I (high)	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.

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Substrate	
Requirements	<p>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.</p> <p>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.</p> <p>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</p>
Preparations	<p>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.</p>
Application	
Application temperature	<p>lowest application temperature: +10 °C max. approved relative humidity: 75 % Highest application temperature: +30 °C max. approved relative humidity: 85 %</p>
Time for application	<p>At +10 °C: approx. 120 minutes At +20 °C: approx. 90 minutes At +30 °C: approx. 45 minutes</p>
Mixing ratio	<p>Component A : component B = 100.0 : 20.0 parts by weight</p>
Material preparation	<p>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.</p>

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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.

Consumption	Type of application	Approx. consumption
<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>	as a sealing coat (undiluted, for each application cycle)	0,15 - 0,20 kg/m ²
	<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>	
<p>Coating build-up</p>	<p>sealing mineral substrates</p> <ol style="list-style-type: none"> 1) Substrate preparation 2) priming coat with StoPox WL 213 3) StoDivers LS 4) sealing coat of StoPox WL 213 (1–2 application cycles) 	
	<p>sealing coat for electrically conductive and non-electrically conductive epoxy resin coatings</p> <ol style="list-style-type: none"> 1) Substrate preparation 2) sealing coat of StoPox WL 213 (1–2 application cycles) 	
<p>Application</p>	<p>sealing mineral substrates</p> <ol style="list-style-type: none"> 1) Substrate preparation 2) priming coat with StoPox WL 213 StoPox WL 213 can be diluted with up to 20 % water depending on the substrate and application conditions. coverage: approx. 0.15–0.20 kg/m² (undiluted) 3) StoDivers LS in accordance with installation instructions 4) Sealing coat 	
	<p>Manual application: StoPox WL 213 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</p>	

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Nylon RS 8; Sto tool catalogue) in a criss-cross pattern.

Apply the material evenly.

coverage: approx. 0.15–0.20 kg/m² (undiluted)

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 material:

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 coat

Manual application:

StoPox WL 213 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.

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

Note: Depending on the colour shade and substrate, 1 - 2 application cycles may 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 in material application, 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
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Cleaning the tools	Clean with water immediately after use. Hardened material can only be removed mechanically.
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Notes, recommendations, special information,	General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.
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miscellaneous

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

Storage

Storage conditions Store in dry and frost-free conditions. Protect from direct sunlight.

Storage life In the original container until ... (see packaging). Provided the storage conditions are adhered to, the quality of the product in its unopened, original container is guaranteed until the maximum storage life has expired. The storage life can be deduced from the batch number of the container.
Batch number explanation:
Number 1 = the last number of the year, numbers 2 + 3 = calendar week
Example: 430 219419781 – storage life until end of week 30 of 2024
Use promptly after opening.
See product packaging

Identification

Product group Sealing coat

GISCODE RE20

Safety This product is subject to compulsory labelling in accordance with the current EU regulation.
Observe the Safety Data Sheet!
Safety instructions refer to the ready-to-use, unapplied product.

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

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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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