Technical Data Sheet

StoPox WL 200

Epoxy resin water-based coating material, slip-resistant



Characteristics

Area of application

- interior and exposed to the weather
- for cementitious substrates
- magnesite and calcium sulphate screeds
- as a coloured sealing coat on industrial floor surfaces

Properties

- water vapour permeable
- very good adhesion to the substrate
- slip-resistant
- low VOC content, in accordance with the criteria of the Committee for Health-related Evaluation of Building Products (Germany)

Information/notes

- product is in accordance with EN 1504-2
- product is in accordance with environmental label category C

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	EN 1542	> 2,0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	2.500 - 3.800 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1,37 - 1,46 g/cm³	
Abrasion resistance according to Taber device	EN ISO 5470-1	62 mg	CS 10/1000U/1000g , approx.
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.

Substrate

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 Special expert knowledge is required for assessing magnesite and calcium sulphate screeds.
Preparations	Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting, or diamond-grinding. Apply a levelling coat for roughness depths > 0.5 mm
Application	
Application temperature	Lowest application temperature: +10 °C 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 Reworking time: at +10 °C: approx. 24 h at +20 °C: approx. 16 h at +30 °C: approx. 12 h
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	Approx. consumption	
as a sealing coat, depending on the substrate	0,15 - 0,25	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

Industrial floor coating suitable for medium mechanical stress, slip-resistant configuration.

1) Substrate preparation
2. Priming coat with StoPox WL 200
3. StoPox WL 200 sealant
4) Floor finish using StoDivers P 105 / StoDivers P 120 (optional)

Application

Industrial floor coating suitable for medium mechanical stress, slip-resistant configuration.

1) Substrate preparation

2. StoPox WL 200 priming coat StoPox WL 200 can be diluted with up to 20 % water depending on the substrate and application conditions.
consumption: approx. 0.15 - 0.20 kg/m² per application cycle

3) Sealing coat: StoPox WL 200
StoPox WL 200 can be diluted with up to 10 % water and applied with a short-pile roller (Sto-Varnish Roller Cover Nylon RS13, Sto SE & Co. KGaA Tools Catalogue).
consumption: approx. 0.15 - 0.20 kg/m² per application cycle

Apply the material evenly. Using a paint grid in the application container is recommended.

4) Floor finish using StoDivers P 105 / StoDivers P 120 (optional)
Apply a thin layer of the floor finish evenly to the clean and cured industrial

flooring. Apply material using a pre-dampened mop. Leave the floor to dry sufficiently, approx. 20 - 30 min.

Carry out the second application cycle at right angles (perpendicular) to the previous application. It is very important to observe the specified drying times between application cycles. Depending on the expected stress, several application cycles may be necessary.

Consumption: approx. 30 - 50 ml/m² per application cycle

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

Notes:

Not suitable for areas subject to high mechanical stress.

Depending on the colour shade and substrate, several application cycles with StoPox WL 200 may be required to achieve homogeneous coverage.

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.

Depending on the exposure to chemicals, discolourations can occur. These do not, however, impair the technical function of the coating.

The anti-skid properties of StoPox WL 200 decrease depending on the use. If this is the case, renew the sealing.

The layer thickness of 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.

If StoPox WL 200 is to be applied to old or new epoxy resin coatings, ensure that intensive initial cleaning is carried out beforehand using StoDivers GR and a single-disc machine, equipped with a black pad. See also the TDS of StoDivers GR. If this measure is not carried out, wetting disturbances may occur in the water-based coating material.

Roller marks might be visible, due to applying the sealer manually.

Cleaning the tools	Clean with water.
Notes, recommendations,	StoPox WL 200 has a tendency to yellow and to cause chalking of surfaces when

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special information, miscellaneous	used in exterior areas. Chalking is particularly pronounced with dark and also highly pigmented colour shades. This must be taken into account when choosing the colour shade. Highly pigmented colour shades outside the grey area (e.g. intense red, blue or yellow shades) are normally subject to higher pigment abrasion. If this is to be avoided, we recommend applying an additional transparent sealing coat, such as StoPox WL 100 transparent (gloss) or StoPox WL 150 transparent (matt). Please take into account that this may lead to possible changes in the slip-resistant properties. A temporary protective effect can also be achieved by using StoDivers P 105 and P 120 floor finish.

Delivery			
Colour shade	wide colour shade variety, RAL colour fan, limited tintability in accordance with the StoColor System		
Packaging	pail and tin		
	Article number	**Name**	**Container**
	03640/012	StoPox WL 200 Set RAL7035	30 kg set
	03640/011	StoPox WL 200 Set RAL7032	30 kg set
	03640/010	StoPox WL 200 Set RAL7030	30 kg set
	03640/008	StoPox WL 200 Set tinted	30 kg set
	03640/002	StoPox WL 200 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	RE20

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Safety	This product is subject to compulsory labelling in accordance with the current EU regulation. Observe the Safety Data Sheet! 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/ Published by: BG BAU - Berufsgenossenschaft der Bauwirtschaft Hildegardstraße 29/30, 10715 DE-Berlin Tel. (+49) 30 85781-0, Fax. (+49) 800 6686688-37400, www.bgbau.de Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung" Published by: Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (BAuA) Friedrich-Henkel-Weg 1-25, 44149 DE-Dortmund Tel. (+49) 231 9071-0, Fax. (+49) 231 9071-2454, E-mail: poststelle@baua.bund.de, homepage: www.baua.de

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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