

# Technical Data Sheet

## StoPox WL 100

EP water-based coating material, glossy, low-emission



### Characteristics

#### Area of application

- interior and exposed to the weather
- for cementitious substrates
- magnesite and calcium sulphate screeds
- as a coloured sealing coat for industrial flooring and traffic areas
- as sealant in the StoCretec OS 8.5 system
- as a component of StoFloor Cleanroom system 6 and the cleanroom wall/ceiling systems 1-5

#### Properties

- water vapour permeable
- water-dilutable
- very good adhesion to the substrate
- low VOC content
- for short-term cleaning +80 °C, if permanently wet max. +40 °C

#### Appearance

- gloss

#### Information/notes

- not suitable for surfaces subject to high mechanical stress
- product is in accordance with EN 1504-2
- product is in accordance with EN 13813
- various test certificates

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	EN 1542	> 2,0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	2.800 - 4.300 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1,38 - 1,46 g/cm <sup>3</sup>	
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 II (medium)	Classification in accordance with DIN EN 1504-2

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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 +10 °C and 3 K above dew point.

Average bond strength: 1.5 N/mm<sup>2</sup>

Bond strength, lowest single value: 1.0 N/mm<sup>2</sup>

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.

Apply a levelling coat for roughness depths > 0.5 mm

#### 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 is at least 3 minutes.

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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/m <sup>2</sup>
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.		

<b>Coating build-up</b>	industrial floor coating with medium mechanical stress 1) Substrate preparation 2) Priming coat of StoPox WL 100 3) Sealing coat of StoPox WL 100 4) Matting sealing coat of StoPox WL 150 transparent (optional) 5) StoDivers P 105 or StoDivers P 120 floor finish (optional)
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<b>Application</b>	industrial floor coating suitable for medium mechanical stress 1) Substrate preparation  2) Prime coating of StoPox WL 100 StoPox WL 100 can be diluted with up to 20 % water depending on the substrate and application conditions.  Consumption: approx. 0.15 - 0.25 kg/m <sup>2</sup> per application cycle  3) Sealing coat of StoPox WL 100 StoPox WL 100 can be diluted with up to 10 % water. Apply it using a nylon roller (pile length approx. 13 - 14 mm) in a criss-cross pattern.  Apply the material evenly. Using a paint grid in the application container is recommended. StoPox WL 100 can be sprayed using the airless spray method.  Please contact our Technical Info Center (Tel. +49 6192-401104) with regard to this type of application.  Consumption: approx. 0.15 - 0.25 kg/m <sup>2</sup> per application cycle  Depending on the colour shade and substrate, several application cycles of StoPox WL 100 may be necessary to achieve consistent hiding power.  4) Matting sealing coat of StoPox WL 150 transparent (optional)
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Dilute the mixed material with approx. 15 % water, mix again, and apply with a nylon roller (pile length 13 - 14 mm) in a criss-cross pattern. 1 to 2 application cycles may be necessary.

Consumption: approx. 0.13 - 0.15 kg/m<sup>2</sup> per application cycle

We recommend decanting StoPox WL 150 transparent with a 25 cm roller and then rolling it in a criss-cross pattern using a 50 cm wide roller.

5) Floor finish using StoDivers P 105/StoDivers P 120 (optional)  
When the industrial flooring is clean and has cured, evenly apply a thin layer of floor finish. Apply the 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/m<sup>2</sup> per application cycle

Avoid direct sunlight, high temperatures, and draughts during application. (See cleaning and care instructions)

**Notes:**

Not suitable for areas subject to high mechanical stress.

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 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 the product is used in exteriors, the surface may yellow and chalk due to the material.

StoPox WL 100 does not have any crack-bridging properties.

If StoPox WL 100 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.

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

<b>Drying, curing, ready for next coat</b>	Reworking time: At +10°C: approx. 24 h At +20°C: approx. 16 h At +30°C: approx. 12 h
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<b>Cleaning the tools</b>	Clean with water.
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<b>Notes, recommendations, special information, miscellaneous</b>	<p>StoPox WL 100 has a tendency to yellow and to cause chalking of surfaces when 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.</p> <p>The declaration(s) of performance can be obtained from the StoCretec Technisches InfoCenter          General application instructions are available at <a href="http://www.stocretec.de">www.stocretec.de</a> and in the notes of the latest Technical Manual.</p> <p>The abrasion resistance class specified in the CE marking refers to the smooth, not scattered covering.</p> <p>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.</p>
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### Delivery

<b>Colour shade</b>	wide colour shade variety, RAL colour fan, StoColor System – limited colour choice
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<b>Tintable</b>	Decentralised tinting is possible in the Sto SalesCentres.
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<b>Packaging</b>	pail and tin
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Article number	Name	Container
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	03470/008	StoPox WL 100 Set tinted	12 kg set
	03470/015	StoPox WL 100 Set tinted	30 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.

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/>

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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"

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### StoPox WL 100

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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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