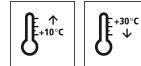


Technical Data Sheet

StoPox WL 100

EP water-based lacquer, glossy, low-emission



Characteristics

Application

- interior and exposed to weathering
- for cement-bound substrates
- magnesia and calcium sulphate screeds
- as a coloured sealing for industrial flooring and traffic areas
- sealing in the tested StoCretec surface protection system OS 8

Properties

- water vapour permeable
- water-dilutable
- very good adhesion to substrate
- VOC - low on emissions

Appearance

- gloss

Information/notes

- not suitable for mechanically high stressed surfaces
- product is in accordance with EN 1504-2
- product is in accordance with EN 13813

Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Tensile strength (28 days)	EN 1542	> 2.0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	2,400 - 3,600 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1.34 - 1.42 g/cm ³	
Taber abrasion	EN ISO 5470-1	62 mg	CS 10/1000U/1000g
Water vapour diffusion class	EN ISO 7783	Class II (medium)	Classification in accordance with DIN EN 1504-2

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that 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 characteristic or dissimilar separating substances.
Less solid layers and slurry accumulations must be removed.

Dry in accordance with the definition of the restoration guideline 2001-10,

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depending on the concrete quality, however. The residual moisture may amount to max. 4 weight per cent in case of concrete qualities of up to C30/37 and max. 3 weight per cent in case of C35/45 concrete, measured with the CM device.

Substrate temperature greater than +10°C and 3 K above dew point.

Average tensile strength 1.5 N/mm²

Smallest individual tensile strength value is 1.0 N/mm²

Special expert knowledge is required for assessing magnesia and calcium sulphate screeds.

Preparations

Prepare the substrate employing a suitable mechanical process such as shot-blasting, milling and subsequent shot-blasting, or blasting with solid abrasives.

Carry out equalisation levelling for roughness depths > 0.5 mm

Application

Application temperature

Lowest application temperature: +10°C Max. permissible relative humidity 75%
Highest application temperature: +30°C Max. permissible relative humidity 85%

Processing time

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 mixed in accordance with the following instructions. Stir component A, then add all of component B.

Mix thoroughly with a slow-running stirrer (maximum 300 rpm) until a homogeneous, streak-free compound develops. It is also vital to thoroughly stir at the sides and bottom to ensure the hardener is uniformly distributed. Mixing time 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 sealant, depending on the substrate	0.15 - 0.25	kg/m ²

Material consumption depends on the application, substrate and consistency, amongst other factors. The specified consumption values are only to be used as a guide. If required, precise consumption values should be determined on the project.

Coating procedure

Industrial floor coating with light mechanical resistance

1) Surface preparation

2) Priming coat with StoPox WL 100

3. StoPox WL 100 sealant

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4. Matting sealant StoPox WL 150 transparent (optional)
5. Care StoDivers P 105 / StoDivers P 120 (optional)

Application

Industrial floor coating for light mechanical stress.
(Roughness depth < 0.5 mm, for roughness depths > 0.5 mm a smooth surface cannot generally be obtained with a sealant)

1) Surface preparation

2) Priming coat with 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/m² per application cycle

3. Sealant with StoPox WL 100

StoPox WL 100 can be diluted with up to 10% water and applied with a nylon roller (pile length approx. 13 - 14 mm) in a criss-cross pattern.

Material must be evenly applied. The use of a rolling grid when poured into another container is recommended. StoPox WL 100 can be sprayed using the airless spraying method.

Please contact our Technical Info Centre (Tel. 06192-401104) with regard to this application.

Consumption: approx. 0.15 - 0.25 kg/m² per application cycle

Depending on the colour shade and substrate, several application cycles with StoPox WL 100 may be required to achieve homogeneous coverage.

4. Matting sealant StoPox WL 150 transparent (optional) Dilute the mixed material with approx. 15% water, mix again and apply with criss-cross movements using a nylon roller (pile length 13-14 mm). 1 to 2 application cycles may be required.

Consumption: approx. 0.13 - 0.15 kg/m² per application cycle

We recommend laying StoPox WL 150 transparent with a 25 cm roll followed by subsequent rolling crosswise with a 50 cm large surface roller.

5. Care StoDivers P 105 / StoDivers P 120 (optional)

Apply a thin layer of care treatment equally to the clean and cured industrial flooring. Apply material using a pre-dampened mop. Leave the floor to dry sufficiently, approx. 20-30 min.

The second application is carried out across the previous application cycle. It is essential that drying times between application cycles are adhered to. Depending on the expected stress, several application cycles may be necessary.

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

Please observe: direct solar radiation, high temperatures and draughts during application should be avoided. (see cleaning and care instructions)

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Notes:

Not suitable for mechanically high stressed surfaces

Ensure sufficient ventilation when applying water-based coating systems. Draughts should, however, be avoided. Different material application, too high humidity, and too low temperatures (< +10°C) can lead to impairments in appearance.

Discolouring can occur depending on exposure to chemicals which do not, however, impair the features of the coating.

The layer thickness for sealings is normally 0.5 mm and decreases as a result of mechanical use. This should be taken into account with regard desired useful life.

Material-related yellowing and chalking of the surface must be expected when used for exteriors.

StoPox WL 100 does not possess any crack bridging properties.

If StoPox WL 100 is to be applied on old or new epoxide resin coatings, they should be sanded down first intensely with a single disc machine, equipped with a black pad, as otherwise wetting disorders can occur in the water lacquer. Roller marks cannot be completely ruled out when sealing due to manual application.

Drying, curing, ready for next coat

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

Cleaning the tools

Clean with water.

Indications, recommendations, special information, miscellaneous

The statement(s) of conformity can be obtained in the StoCretec Technical Information Centre
General application instructions can be found at www.stocretec.de (Products) and in the appendix of the current manual "Technical Data Sheets"

The wear class specified in the CE marking refers to the smooth, non sprinkled covering.

Highly pigmented colour shades outside the grey area (e.g. intense red, blue or yellow shades) are normally subject to a higher pigment abrasion.

If this is to be avoided, we recommend applying an additional, transparent top sealing, such as StoPox WL 100 transparent (gloss) or StoPox WL 150 transparent (matt).

Any possible changes to the slip-resistant properties must be taken into account. A temporary, protective effect can also be achieved by using StoDivers P 105 and P 120.

Delivery

Colour shade

RAL colour fan, limited tintability in accordance with the StoColor System, broad

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variety of colour shades

Tintable Decentralised tinting possible in the Sto SalesCentres.

Packaging Pail and tin

Article number	Designation	Container
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).

Certificates / approvals

Identification

Product group Water-based lacquer

Safety

This product is subject to compulsory designation under EU law. You will receive an EU Health & Safety Data Sheet with your first order. Please observe the information regarding the handling of the product, its storage and disposal.

Practical guide for dealing with epoxy resins: "Sicherer Umgang mit Epoxidharzen in der Bauwirtschaft" (Safely dealing with epoxy resins in the construction industry).

And

Test report on the protective action of chemical protective gloves against EP coatings: "Handschuhe für lösemittelfreie Epoxidharz-Systeme" (Gloves for solvent-free epoxy resin systems) and "Schutzhandschuhe: Richtig anwenden" (Protective gloves: Correct use)
[Www.gisbau.de/service/epoxi/Bericht.pdf](http://www.gisbau.de/service/epoxi/Bericht.pdf)

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

(Economic and safe building site facilities)

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Special instructions

The information or data serves to ensure the product's intended use or its suitability for use and is based on our findings and experience. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.

Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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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