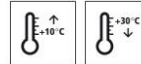


Technical Data Sheet

StoPox WL 150

EP water-based coating material, silk matt



Characteristics

Area of application

- interior
- exterior
- On floors
- for cementitious substrates
- on magnesia and calcium sulphate screed
- as a coloured sealing coat for industrial flooring and traffic areas

Properties

- water vapour permeable
- water-dilutable
- very good adhesion to the substrate
- tested system build-ups available in accordance with the criteria of the Committee for Health-related Evaluation of Building Products (Germany)
- for short-term cleaning +80 °C, if permanently wet max. +40 °C

Appearance

- Silk matt

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
- StoPox WL 150 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.

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	EN 1542	> 2,0 MPa	(28 days)
Viscosity (at 23 °C)	EN ISO 3219	244 - 366 mPa.s	10 % diluted
Density (mixture 23 °C)	EN ISO 2811	1,27 - 1,35 g/cm ³	

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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.

Substrate

Requirements

General:

- Dry, load-bearing
- Free from separating, native, or foreign substances
- Remove weak layers.
- Remove any accumulation of fine concrete particles on the surface.

Dry substrate:

- Depends on the compressive strength class
- Dry in accordance with the definition in EN 1504-10

Moisture content:

- Measure the moisture content of the concrete substrate with a calcium carbide meter.
- Moisture content for concrete qualities up to C30/37: max. 4 CM per cent
- Moisture content for concrete qualities up to C35/45: max. 3 CM per cent

Substrate temperature: at least +10 °C, 3 K above the dew point

Bond strength, average: 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

1) Prepare all the above-mentioned substrates using a mechanical method, see "Substrate, requirements".

Example:

- Shot-blasting
- Milling followed by shot-blasting
- 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 %

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Highest application temperature: +30 °C
max. approved relative humidity: 85 %

Time for application	At +10 °C: approx. 120 minutes
	At +20 °C: approx. 90 minutes
	At +30 °C: approx. 45 minutes

Mixing ratio	component A : component B
	A : B
	100 : 20 parts by weight

Material preparation	Notes:
	- Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions:
	- Observe the order of the "Preparing material" steps.
	- The material temperature is between +15 °C and +25 °C.
	- The temperature of all components is between +15 °C and +25 °C.
	Preparing the material:
	1) Stir component A.
	2) Add all of component B.
	3) Mix the components until the hardener is well distributed, the mixture is homogeneous, and a streak-free mass is produced.
	Paddle mixer: slow running mixer, max. 300 rpm
	Mixing time: at least 3 minutes
	4) Ensure that the mixing equipment covers the floor areas and the edge zones of the mixing container. The hardener must be evenly distributed.
	5) Transfer the mixture to a clean container. Mix the components again.
	Do not apply from the delivery container!

Consumption	Type of application	Approx. consumption	
	(undiluted, per application cycle)	0,15 - 0,25	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	industrial floor coating with medium mechanical stress
	1) Prepare the substrate.
	2) Primer: StoPox WL 150
	3) Sealing coat: StoPox WL 150
	4) floor finish with StoDivers P 105 or StoDivers P 120 (optional)

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Application

industrial floor coating with medium mechanical stress

1) prepare the substrate

2) Priming:

- StoPox WL 150
- can be diluted with up to 20 % water depending on the substrate and application conditions

- coverage: approx. 0.15–0.25 kg/m² per application cycle (undiluted)

3) Sealing:

- StoPox WL 150
- can be diluted with up to 10 % 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.

- coverage: approx. 0.15–0.25 kg/m² per application cycle (undiluted)

Depending on the colour shade and substrate, several application cycles of StoPox WL 150 may be necessary to achieve homogeneous hiding power.

4) Floor finish:

- StoDivers P 105 or StoDivers P 120 (optional)
- Apply the product evenly and thinly. Tools: damp mop
- Leave the product to dry for 20-30 minutes.
- For further application cycles: apply the product crosswise to the previous application cycle.

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

Note:

- the floor finish increases the gloss level of the matt sealing coat StoPox WL 150
- Apply a floor finish to the sealing coat 2 days at the earliest after application.
- Avoid overlaps.

sealing coat on old and new epoxy resin thick coatings

1) substrate preparation on an existing coating (E.g. initial cleaning with StoDivers GR and cleaning pad)

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2) Sealing:

- StoPox WL 150
- can be diluted with up to 10 % water
- Distribute the material using a Sto rubber squeegee (1 mm notching) without applying much pressure, then rework it with a nylon roller (Sto Lacquer Roller Nylon RS 8 or Sto Wide Roller Sleeve Nylon RS 8; Sto tool catalogue) in a criss-cross pattern.

Apply the material evenly.

- consumption: approx. 0.15–0.25 kg/m² per application cycle
- Depending on the colour shade, 1–2 application cycles are required.
- Avoid direct sunlight, high temperatures, and draughts during application.

Notes:

- Not suitable for areas subject to high mechanical stress.

Application of water-based coating systems:

- Ensure sufficient ventilation.
- Prevent draughts.
- Different layer thicknesses, too high humidity, and too low temperatures (< +10 °C) can lead to visual defects.

- Discolouring can occur depending on the type of chemicals which do not, however, impair the technical function of the coating.

-

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.

Application in exterior areas:

- The surface may yellow and chalk due to the material.
- StoPox WL 150 does not have any crack-bridging properties.

Cleaning the tools

Clean with water.

Notes, recommendations, special information, miscellaneous

The declaration(s) of performance can be obtained from the StoCretec Technisches InfoCenter
General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.

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The abrasion resistance class specified in the CE marking refers to the smooth, not scattered covering.

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. To increase the skid and slip resistance, StoPox WL 150 approx. 3 % StoBallotini with a graining of 75–150 µm can be added.

Delivery

Colour shade wide colour shade variety, RAL colour fan, StoColor System – limited colour choice

Tintable Decentralised tinting is possible in the Sto SalesCentres.

Packaging pail and tin

Article number	Name	Container
08853/003	StoPox WL 150 Set tinted	30 kg set
08853/002	StoPox WL 150 Set tinted	12 kg set

Storage

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

Storage life 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

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GISCODE

RE20

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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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.

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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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