Technical Data Sheet

StoPox WL 150 transparent

EP water-based coating material, transparent



Characteristics

Area of application

- interior
- on floors
- for cementitious substrates
- magnesite and calcium sulphate coats in accordance with EN 13813
- as a transparent sealing coat for industrial flooring
- for production areas in the food-processing industry with medium strain
- as a component of StoFloor Cleanroom system 10

Properties

- high abrasion resistance
- very good adhesion on epoxy resin coatings
- low VOC content, 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

- various test certificates

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Viscosity (at 23 °C)	EN ISO 3219	200 - 300 mPa.s	15 % diluted with water
Density (mixture 23 °C)	EN ISO 2811-2	1,04 - 1,11 g/cm³	
Abrasion resistance according to Taber device	EN ISO 5470-1	12 mg	CS 10/1000U/1000g, approx.
Non-volatile content	DIN EN ISO 3251:06-2008	51 %	

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

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Requirements	Requirements on the 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 +12 °C and 3 K above dew point. Average bond strength: 1.5 N/mm² Bond strength, lowest single value: 1.0 N/mm²
Preparations	Substrate preparation: Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.
Application	
Application temperature	lowest application temperature: +12 °C max. approved relative humidity: 75 % Highest application temperature: +30 °C max. approved relative humidity: 85 %
Time for application	At +12°C: approx. 60 minutes At +20 °C: approx. 45 minutes at +30 °C: approx. 30 minutes Reworking time: At +12°C: approx. 48 h at +20 °C: approx. 24 h At +30°C: approx. 16 h
Mixing ratio	component A : component B = 100.0 : 33.3 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.

Transfer the material into a clean container using a paint sieve and stir it once again. Eliminate any lumps that occur during mixing.

Consumption

Type of application	Approx. consumption	
as a sealing coat for each application cycle	0,13 - 0,15	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

Transparent sealing coat on StoPox coatings (sprinkeled with coloured flakes), e.g. StoPox WL 100, StoPox WB 100, StoPox BB OS.
1) Sealing coat of StoPox WL 150 transparent
2) Floor finish using StoDivers P 105 / StoDivers P 120 (optional)

Transparent sealing coat on mineral substrates.
1) Substrate preparation
2) Prime coating of StoPox WL 150 transparent
3) Sealing coat of StoPox WL 150 transparent
4) Floor finish using StoDivers P 105 / StoDivers P 120 (optional)

Application

Transparent, silk matt sealing coat on StoPox coatings (sprinkeled with coloured flakes), e.g. StoPox WL 100, StoPox WB 100, StoPox BB OS
1. Sealing coat
Dilute StoPox WL 150 transparent with approx. 15% water and apply with a nylon roller (Sto-Varnish Roller Nylon RS 13 or Sto Large Surface Roller Nylon RS 13, Sto-Tool Catalogue) in a criss-cross pattern. 1 to 2 application cycles may be required.
Consumption: approx. 0.13 - 0.15 kg/m² 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.

For larger, geometrically simple surfaces, the best result is achieved with the following application method: Pour a narrow strip of the material on to the ground and distribute by pulling it slowly with a rubber squeegee (2 mm toothing, Sto-Tool Catalogue). Then, smooth over with a nylon roller (Sto-Varnish Roller Nylon RS 13

or Sto-Large Surface Roller Nylon RS 13, Sto-Tool Catalogue) transverse to the pulling direction. Finally, with the aid of nail shoes, roll again in the pulling direction using the Sto-Large Surface Roller Nylon RS 13. Roller marks and overlapping are largely avoided if this method of application is used.

2) 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 the 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/m² per application cycle

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

Transparent sealing coat on mineral substrates.
1) Substrate preparation

2) Prime coating
Dilute StoPox WL 150 transparent with approx. 30% water and apply with a nylon roller (Sto-Varnish Roller Nylon RS 13 or Sto Large Surface Roller Nylon RS 13, Sto-Tool Catalogue) and evenly spread. Avoid puddles.
Consumption: approx. 0.13 - 0.15 kg/m², depending on the roughness and absorption capacity of the substrate.

3) Sealing coat
Dilute StoPox WL 150 transparent with approx. 15% water and apply with a nylon roller (Sto-Varnish Roller Nylon RS 13 or Sto Large Surface Roller Nylon RS 13, Sto-Tool Catalogue) in a criss-cross pattern. 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.

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:
Ensure sufficient ventilation when applying water-based coating systems. However, avoid draughts. Different layer thicknesses, too high humidity, and low temperatures (< +12 °C) can lead to visual defects.

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.

If mineral substrates are to sealed, a test surface must be created in advance to assess the appearance and material consumption.

Despite high yellowing stability, a change in colour shade due to UV stress must be expected.

The material must be applied evenly when sealing. Using a paint grid in the application container is recommended.

If StoPox WL 150 transparent is provided with the floor finish the gloss level of the floor increases.

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

Cleaning the tools	Clean tools with water immediately after use.
Notes, recommendations, special information, miscellaneous	Visual changes cannot be ruled out in case of frequent temperature- and chemicals-related stress. General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.

Delivery

Colour shade	transparent

Article number	Name	Container

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	08043/001	StoPox WL 150 Set transparent	8 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	Epoxy resin
GISCODE	RE30
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:

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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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