Technical Data Sheet

StoPox WL 100 transparent

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

Characteristics

Area of application

- interior
- on floors
- for cementitious substrates
- magnesite and calcium sulphate screeds
- as a transparent sealing coat on epoxy resin floor coatings
- for production areas in the food-processing industry with medium strain

Properties

- very good wetting of the substrate
- high abrasion resistance
- for short-term cleaning +80 °C, if permanently wet max. +40 °C

Appearance

- gloss

Information/notes

- product is in accordance with EN 1504-2
- not suitable for surfaces subject to high mechanical stress
- various test certificates
- Visual changes cannot be ruled out in case of frequent temperature- and chemicals-related stress.

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	1,700 - 2,600 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1.03 - 1.09 g/cm³	
Abrasion resistance according to Taber device	EN ISO 5470-1	12 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.

Technical Data Sheet
StoPox WL 100 transparent

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 +12 °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.

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
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.
Consumption	Type of application — Approx. consumption

	as a sealing coat for each application cycle	0.1 - 0.2	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.

StoPox WL 100, StoPox WB 100, StoPox BB OS and colour chips as substrate.
1. StoPox WL 100 transparent sealing
2. Care StoDivers P 105 / StoDivers P 120 (optional)

Transparent sealing coat on mineral substrates.
1) Substrate preparation
2. Priming coat with StoPox WL 100 transparent
3. StoPox WL 100 transparent sealing
4) Floor finish using StoDivers P 105 / StoDivers P 120 (optional)

Application

Transparent sealing on water-based coatings with chips, e.g. StoPox WL 100, StoPox WB 100

1. Sealing coat
Apply StoPox WL 100 transparent, depending on the application conditions, with approx. 15 - 20% water and a short-pile roller (Sto-Varnish Roller Nylon RS 13, Sto-Tool Catalogue) in a criss-cross pattern.

Consumption: approx. 0.1 - 0.2 kg/m² per application cycle

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 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
StoPox WL 100 transparent can be diluted with up to 20 - 30% water depending on the substrate and application conditions, applied with a rubber squeegee and evenly spread. Avoid puddles.

Consumption: approx. 0.2 - 0.3 kg/m², depending on the roughness of the substrate.

3. Dilute StoPox WL 100 transparent sealing with approx. 15 - 20% water, depending on the application conditions, and apply with a short-pile roller (Sto-Varnish Roller Nylon RS 13, Sto-Tool Catalogue) in a criss-cross pattern. 1 to 2 application cycles may be required. Consumption: approx. 0.1 - 0.2 kg/m² per application cycle

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.

Note:
Not suitable for areas subject to high mechanical stress.

Ensure sufficient ventilation when applying water-based coating systems. However, avoid draughts. Different material application, too high humidity, and too low temperatures (< +12°C) can lead to impairments in appearance.

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.

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.

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

Technical Data Sheet
StoPox WL 100 transparent

Drying, curing, ready for next coat	Reworking time: At +12°C: approx. 24 h At +20°C: approx. 16 h At +30°C: approx. 12 h
Cleaning the tools	Clean tools with water immediately after use.
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.

Delivery

Colour shade	transparent
Packaging	pail

Article number	Name	Container
14206/005	StoPox WL 100 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
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.

StoCretec GmbH
Gutenbergstr. 6
D-65830 Kriftel

Tel.: +49 6192 401-104
Fax: +49 6192 401-105
stocretec@sto.com
www.stocretec.de