

Technical Data Sheet

StoPox WL 150 Transparent

Water-Based Epoxy Sealer, transparent, low-emission



Characteristics

Area of application

- Interior
- Onto floor slabs
- As penetrative sealer for concrete floor
- Magnesia and calcium sulphate coats in accordance with EN 13813
- As matting transparent sealer for industrial flooring

Properties

- High abrasion resistance
- Very good adhesion on epoxy coatings
- Low VOC Emissions

Appearance

- Transparent
- Silk matt

Technical Data

Criteria	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811-2	1.03 – 1.09 g/cm ³	
Viscosity (at 23°C)	EN ISO 3219	200 - 300 mPa.s	with 15% water dilution
Taber abrasion	ASTM D4060	21 mg	CS 10/1000U/1000g

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 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, depending on the concrete quality, however.

The residual moisture may amount to max. 4% by Carbide Meter in case of concrete qualities of up to C30/37 and max. 3% in case of C35/45 concrete, measured with the CM device.

Substrate temperature greater than +12 °C and 3 K above dew point.

Average tensile strength 1.5 N/mm²

Smallest individual tensile strength value is 1.0 N/mm²

Preparation

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

Application

Application temperature

Lowest application temperature: +12°C Max. permissible relative humidity 75%
 Highest application temperature: +30°C Max. permissible relative humidity 85%

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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 mixed in accordance with the following instructions. Stir component A, and 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 using a sieve to eliminate any lumps that occur 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 for each application cycle	0.13 – 0.15 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 **Transparent sealing on StoPox coatings with chips, e.g. StoPox WL 100, StoPox WB 100, StoPox BB OS.**

- StoPox WL 150 transparent sealing
- StoDivers P 105 / StoDivers P 120 care treatment (optional)

Transparent sealing of mineral substrates.

- Surface preparation
- Priming coat with StoPox WL 150 transparent
- StoPox WL 150 transparent sealing
- Care treatment with StoDivers P 105 / StoDivers P 120 (optional)

Application Application method
Apply with roller

Transparent, silk matt sealing on StoPox coatings with chips, e.g. StoPox WL 100, StoPox WB 100, StoPox BB OS

- Sealing
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 followed by subsequent rolling crosswise with a 50 cm large surface 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).

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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. 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.

Transparent sealing of mineral substrates.

1. Surface preparation

2. Priming coat

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

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

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

StoDivers P 105 / StoDivers P 120 care treatment (optional) Apply a thin layer of care treatment 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.

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.

Drying, curing, ready for next coat

Reworking time:

At +12°C: approx. 48 h

At +20°C: approx. 24 h

At +30°C: approx. 16 h

Cleaning the tools

Tools must be cleaned immediately after use with clean water.

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Notes, recommendations, special information, miscellaneous

Ensure sufficient ventilation when applying water-based coating systems. Draughts should, however, be avoided. Different material application, too high humidity, and too low temperatures $< +12^{\circ}\text{C}$ can lead to impairments in appearance.

The layer thickness for sealants is normally < 0.5 mm and decreases as a result of mechanical use. This should be taken into account with regard required service life.

If mineral substrates are to be 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. The use of a rolling grid when poured into another container is recommended.

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

Roller marks cannot be completely ruled out when sealing due to manual application.

Please consult the local sales office for further information and any site assistance required.

Delivery

Packaging	Article No	Name	Packing
	53000/176	StoPox WL 150 Transparent	8 kg set

Storage

Storage conditions Store in a cool, dry place; avoid exposure to direct sunlight.

Storage life This product has a shelf life of 12 months from the manufacturing date.

Identification

Product group Floor Coating

Safety Please refer to Safety Data Sheet.

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 www.sto-sea.com.

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