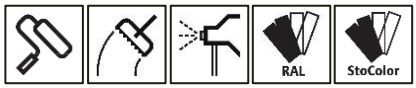
Technical Data Sheet

StoPox WL 100

Two-components, aqueous epoxy resin coating





Characteristics

Area of application

- For interior application
- On floor and wall areas
- As a coloured sealing coat for industrial and traffic areas. e.g. warehouses, car parks
- For areas requiring a cleanroom system
- For areas where normal solvent containing coatings would not be desirable
- For areas subject to rising dampness

Properties

- Resistant to alkalis, mineral oils, greases and fuels
- Water vapour permeable (SD- value water vapour < 5m)
- Very good adhesion to substrates
- Temperature resistance for short-term cleaning (up to +80°C)

Appearance

- Gloss

Information / notes

- Product fulfils requirements from Singapore Green Building Council as a Green Mark certified leader
- Product is in accordance with EN 1504-2
- Product is in accordance with EN 13813

Technical Data

Criteria	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.39 - 1.47 g/cm³	
Adhesion Strength	ASTM D7234	>1.5 N/mm²	
Solids Content		68% - 72%	
Viscosity	EN ISO 3219	2400 – 3600 mPas	

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 sound, dry, load bearing and free from native and foreign substances that have a separating effect. Remove less strong layers and laitance. The maximum moisture content of the substrate should not exceed 4% by weight measured with the CM device.

Substrate temperature greater than +8°C and 3 K above dew point.

Average adhesion strength > 1.5 N/mm². Adhesion strength of the single smallest value 1.0 N/mm²

Preparations

Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.

Technical Data Sheet

StoPox WL 100

Application

Application temperature	Lowest application temperature: +10 °C Max. approved relative humidity: 75 % Highest application temperature: +30 °C Max. approved relative humidity: 85 %
Time for application	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 should be mixed in accordance with the following instructions. Stir and agitate with a trowel in 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 at least 3 minutes. Do not apply from the delivery container! After mixing, transfer the material into a clean container and stir it thoroughly once again. The temperature of the individual components must be min. +15°C when mixing.
Consumption	Type of application: As a sealing coat — Approx. consumption: 0.15 – 0.25 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	**For industrial flooring with light mechanical wear** 1) Substrate preparation 2) Prime coating of StoPox WL 100 3) Sealing coat of StoPox WL 100 4) Matt sealing coat of StoPox WL 150 Transparent (optional) 5) Care treatment using StoDivers P 105 / StoDivers P 120 (optional) **For underground carpark driveway with medium mechanical wear** 1) Substrate preparation 2) Prime coating of StoPox WG 100 3) Scratch coat (optional, e.g. roughness > 0.5 mm) 4) Sealing coat of StoPox WL 100
Application	**For industrial flooring with light mechanical wear :** 1) Substrate Preparation 2) Prime coating Priming coat with StoPox WL 100 diluted up to 20% with clean water, depending on substrate and application conditions. Apply with a rubber squeegee and distribute evenly by rolling down to ensure complete sealing of all substrate pores. Consumption: approx. 0.15 – 0.25 kg/m²

3) Sealing coat
Sealing coat with StoPox WL 100, diluted up to 10% with clean water.
Apply the material evenly using a Sto RS 13 Nylon roller or airless spray.

Consumption: Approx. 0.15 – 0.25 kg/m² per coat.

Note: Depending on colour tone and substrate conditions, several coats may be needed to get a homogeneous covering.

4) Matt sealing coat (optional)
To achieve a matt finish, apply a sealing coat of StoPox WL 150 Transparent.

Dilute the mixed material with 15% water and mix again.

Apply using a Sto RS 13 Nylon roller 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 applying StoPox WL 150 transparent with a 25 cm roller and then rolling it in a criss-cross pattern using a 50 cm wide roller.

5) Care treatment
When the industrial flooring is clean and has cured, evenly apply a thin layer of care treatment of StoDivers P 105 or StoDivers P 120.

Apply the material using a pre-dampened, lint-free 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. 0.02 – 0.05 lit/m² per application cycle

For underground carpark driveway with medium mechanical wear :

1) Substrate Preparation
2) Prime coating
Priming coat with StoPox WG 100 diluted approx. 10% with water depending on substrate and application conditions.

Apply with a rubber squeegee and distribute evenly by rolling / brushing down.

Consumption: approx. 0.15 – 0.25 kg/m², depending on substrate roughness.

3) Scratch coat (optional, e.g. roughness > 0.5 mm)
For very rough substrate, StoPox WG 100 undiluted filled 1: 0.5 to 1: 0.8 parts by weight with Sto Filler 60/100 spread with a smoothing trowel and sharply screeded with a steel trowel.
Over coating when used as levelling layer: after approx. 6 - 8 hrs at 30°C

Consumption of ready filled mixture: approx. 1.5 kg/m²/mm coating thickness.

Consumption of StoPox WG 100: approx. 0.8 - 1.0 kg/m²/mm coating thickness

Consumption of Sto Filler 60/100: approx.. 0.5 – 0.7kg/m²/mm coating thickness

4) Sealing coat
Sealing coat with StoPox WL 100, diluted up to 10% with clean water.
Apply the material evenly using a Sto RS 13 Nylon roller or airless spray.

Consumption: Approx. 0.15 – 0.25 kg/m² per coat.

Note: Depending on colour tone and substrate conditions, several coats may be needed to get a homogeneous covering.

StoPox WL 100

Note :

1. Not suitable for areas subject to high mechanical stress.
2. Ensure sufficient ventilation when applying water-based coating systems. However, avoid different layer thickness, draughts, high humidity and too low temperatures (< 10°C) that can lead to visual defects.
3. Depending on chemical load, optical discolouration may appear, which however do not impair the technical function of the coating.
4. The layer thickness of sealing coats is normally < 0.5 mm and reduces as a consequence of mechanical wear. This should be considered with regard to the required service life.
5. When applied for external use, surface yellowing and chalking may be expected. A layer of UV resistance top coat such as StoPur TC UV or StoPur PAC is recommended.
6. StoPox WL 100 has no crack bridging properties.
7. If applying StoPox WL 100 to old or new epoxy coatings, sand down thoroughly with a single-disc machine equipped with a black pad. Failing to do so may result in wetting issues. Roller marks might be visible due to manual application.

Drying, curing, ready for next coat	Reworking time: At +10°C : approx. 24 hours At +23°C : approx. 16 hours At +30°C : approx. 12 hours
Cleaning the tools	Tools must be cleaned immediately after use with clean water.
Notes, recommendations, special information, miscellaneous	Please consult the local sales office for further information and any site assistance required.

Delivery

Colour

Basic range (PG 11)
Special range (PG 12)

Packaging

Name	Packing
StoPox WL 100	12 kg set

Storage

Storage conditions	Store in cool dry conditions; avoid direct sunlight.
Storage life	This product has a shelf life of 12 months from the manufacturing date.

Identification

Product group	Floor and Wall Coating
Safety	Please refer to Safety Data Sheet.

Technical Data Sheet

StoPox WL 100

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.

Sto SEA Pte Ltd
159 Sin Ming Road
#06-02 Amtech Building
Singapore 575625
Phone: +65 6453 3080
Fax : +65 6453 3543
info.sg@sto.com
www.sto-sea.com

Sto SEA Sdn Bhd
28, Jalan Rajawali 3
Bandar Puchong Jaya,
47170 Selangor, Malaysia
Phone: +60 3 8080 9066
Fax: +60 3 8080 9255
info.my@sto.com
www.sto-sea.com

Sto SEA Pte Ltd
3656/49-52 Green Tower, 16th Floor
Rama IV Rd, Klongton, Klongtoei,
10110 Bangkok, Thailand
Phone: +66 2 1684 921 Ext. 230
Fax: +66 2 1684 999
info.sg@sto.com
www.sto-sea.com

StoCretec GmbH
Gutenbergstr. 6
65830 Kriftel,
Germany
Phone: +49 6192 401 104
Fax: +49 6192 401 105
info.sg@sto.com
www.sto-sea.com

*Product images may differ from the actual product.