Technical Data Sheet
StoPox WG 100

EP primer, water-based, low-emission

Characteristics

Area of application

- interior areas and areas exposed to weather conditions
- on floors
- for cementitious substrates such as concrete or screed surfaces
- magnesite and calcium sulphate screeds
- as a priming coat underneath water-based StoPox products
- adhesion promoter onto smooth mineral substrates
- adhesion promoter onto existing coatings based on EP/PUR resin (create a test surface)
- as wearing course in the tested StoCretec surface protection system OS 8.5

Properties

- very good adhesive bond on mineral substrates
- very good adhesion promoter on existing coatings
- water vapour permeable
- rapid curing at ambient room temperature
- can be filled with quartz sand on-site
- low in VOC emissions

Appearance

- milky, slightly cloudy

Information/notes

- product is in accordance with EN 1504-2
- product is in accordance with EN 13813

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	800 - 1,250 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1.44 - 1.53 g/cm³	
Water vapour permeability class	EN ISO 7783	Class I (high)	Classification in accordance with DIN EN 1504-2

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	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 native and foreign release agents. Remove less strong layers and laitance. Dry or damp in accordance with the definition in the DAfStb (German) Repair Guideline 2001-10. Substrate temperature higher than +8 °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: +8 °C highest application temperature: +25 °C max. approved relative humidity: 85 %
Time for application	At +10 °C: approx. 60 minutes At +20 °C: approx. 45 minutes At +25°C: approx. 30 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 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 — Approx. consumption

	as primer, depending on the substrate	0.30 - 0.50	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

Industrial floor coating for medium mechanical stress, water vapour permeable.
1) Substrate preparation
2) Prime coating of StoPox WG 100
3) Levelling filler coating of StoPox WG 100, filled (for roughness depths > 0.5 mm).
4) Finishing coat of StoPox WB 100

Adhesion promoter on existing coatings based on EP and PUR resins
1) Substrate preparation
2) Adhesion promoter StoPox WG 100
3) Finishing coat e.g. StoPox BB OS, StoPox KU 601

Application

Industrial floor coating for medium mechanical stress, water vapour permeable
1) Substrate preparation

2) Prime coating
StoPox WG 100 can be diluted with up to 10 % water depending on the substrate and application conditions. Apply the material with a rubber squeegee and then evenly spread it by rolling/brushing.
Material consumption: approx. 0.3 - 0.5 kg/m², depending on the absorption capacity of the substrate

3) Levelling filler coating (for roughness depths > 0.5 mm)
Fill StoPox WG 100 with approx 1 : 0.5 to 1 : 0.8 parts by weight with StoQuarz 0.1 - 0.5 mm. Pour the mixed material onto the floor and distribute it using a smoothing trowel or finishing spatula.
Consumption of mixed material: approx. 1.5 kg/m² and mm layer thickness
Consumption of StoPox WG 100: approx. 0.8 - 1.0 kg/m² and mm layer thickness
Over-coatable if used as filler: after approx. 8 - 10 hours at +20 °C

4) Coating of StoPox WB 100
Apply StoPox WB 100 undiluted using a notched trowel/squeegee with triangular notching or a rubber squeegee with coarse notching. Then de-air with a spiked roller.
Consumption: approx. 1.9 kg/m² per mm of layer thickness
Recommended material application: approx. 3.0 - 4.0 kg/m²
Applying less material worsens the flow properties.

Steel squeegee (Sto-Tool Catalogue): notching 48 at a consumption of approx. 2.8 kg/m², notching 78 at a consumption of approx. 3.2 kg/m²

Rubber squeegee (Sto-Tool Catalogue): notching 8 mm at a consumption of approx. 2.8 kg/m², notching 10 mm at a consumption of approx. 3.3 kg/m², notching 12 mm at a consumption of approx. 4.7 kg/m².

Adhesion promoter on existing coatings based on EP and PUR resins.
1) Substrate preparation

Test the substrate for its load-bearing capacity and suitability. Grind it to stress whitening using a disc sander (30 grit disc, Schwamborn Multi-Purpose Machine STR 702). Remove sanding dust and residual dirt with an industrial vacuum cleaner.

2) Adhesion promoter
Dilute StoPox WG 100 with max. 10 % water depending on the application requirements. Apply with a short-pile roller.
Consumption approx. 0.1 - 0.2 kg/m² for smooth, non-absorbent substrates

3) Finishing coat
After a waiting time of min. 8 and max. 48 hours (at room temperature), apply the finishing coat StoPox BB OS, StoPox KU 601, or StoPur IB 500 in accordance with the relevant Technical Data Sheet.

Note:
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. However, avoid draughts.

Different layer thicknesses, too high humidity, and too low temperatures can lead to visual defects (differences in the gloss levels).

Avoid direct sunlight, high temperatures, and lack of humidity, because these result in curing too quickly (skin formation/seams/visible squeegee marks).

If overcoating existing coatings, the Sto analytics department should carry out an analysis of the binding agent used in the existing coating.

The applicator should create a test surface and check the adhesive bond to the finishing coat.

Elasticised reaction resins must not be overcoated with rigid reaction resins.

Drying, curing, ready for next coat	Over-coatable as prime coating with water-based epoxy resins: At +10°C: approx. 16 h At +20°C: approx. 4 h At +30°C: approx. 2 h
Cleaning the tools	Clean with water.

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

Delivery

Packaging pail and tin

	Article number	Name	Container
	00562/001	StoPox WG 100 Set	12 kg set
	00562/003	StoPox WG 100 Set	30 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 Primer

Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.

You will receive an EU Safety Data Sheet with your first order.
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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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"

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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