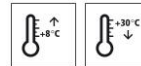


Technical Data Sheet

StoPox WB 50

EP filler, water-based, layer thickness of 0-4 mm



Characteristics

Area of application

- as a scratch and levelling coat over large areas to protect and repair concrete members
- as partial reprofiling of 4-10 mm after addition of approx. 1 weight percent of StoDivers ST
- as partial reprofiling of 10-20 mm after addition of approx. 1.25 weight percent of StoDivers ST and approx. 25 weight percent of StoQuarz 0.3-0.8 mm
- on interior and exterior walls

Properties

- epoxy-resin-bound filler (PC)
- very high mechanical resistance
- very good adhesive strength on a concrete substrate
- very good non-sag properties
- very good sealing of pores
- very good application properties
- rapid curing, even at low temperatures $\geq +10^{\circ}\text{C}$
- water-based
- coating in accordance with EN 1504-2

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 1.0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	6,000 - 9,000 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1.75 - 1.86 g/cm ³	

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

- load-bearing
- free from release agents
- concrete
- open pores close to the surface

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- bond strength in accordance with EN 1504-10: ≥ 1.5 MPa, lowest single value ≥ 1.0 MPa
- moisture content in accordance with EN 1504-10: dry

Preparations

Substrate made of concrete
- blasting with blast-cleaning abrasives or water blasting

When deciding whether or not to keep old epoxy resin paint coats, check their load-bearing capacity.

Application

Application conditions

Material temperature during mixing: min. 15 °C, max. 25 °C
substrate temperature during application: see application temperature and 3 K above dew point

Application temperature

Lowest application temperature: +8 °C
Highest application temperature: +30 °C

Time for application

At +15 °C: approx. 45 minutes

Mixing ratio

component A : component B = 100.0 : 25.0 parts by weight

Material preparation

Tools required:
- slow-moving paddle mixer (speed: max. 300/rpm)

- 1) Stir component A.
- 2) Add component B completely to component A.
- 3) Mix both components until a homogeneous mixture is obtained.
- 4) Transfer the mixture into a clean container and stir again.

Application of partial reprofiling 4 - 10 mm:

Add approx. 1 wt% of StoDivers ST thixotropic additive to StoPox WB 50. The quantity of the required thixotropic additive depends on the temperature.

- 1) Prepare StoPox WB 50 as described above.
- 2) Add StoDivers ST to the mixture and mix again thoroughly.
- 3) Apply the material immediately.

Application of partial reprofiling 10 - 20 mm:

Add approx. 1.25 wt% of StoDivers ST thixotropic additive and approx. 25 wt% of StoQuarz 0.3-0.8 to StoPox WB 50. The quantity of the required thixotropic additive depends on the temperature.

- 1) Prepare StoPox WB 50 as described above.

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2) Add StoDivers ST and StoQuarz 0.3-0.8 to the mixture and mix again thoroughly.

3) Apply the material immediately.

Consumption	Type of application	Approx. consumption	
	per mm layer thickness	2.2	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	Coating on concrete and existing epoxy resin coatings		
	1) Substrate preparation 2) Optional: partial reprofiling using StoPox WB 50 + StoQuarz 0.3-0.8 depending on requirements 3) Prime coating of StoPox WG 100 4) Optional: StoPox WB 50 to fill pores and blow-holes over a wide area 5) Intermediate coat of StoPox TU 100 6a) Finishing coat of StoPox TU 100 6b) Optional: finishing coat of StoPur WV 60		
Application	Coating on concrete and existing epoxy resin coatings		
	1) Substrate preparation 2) Optional: partial reprofiling 4-10 mm: StoPox WB 50 + StoDivers ST partial reprofiling 10-20 mm: StoPox WB 50 + StoDivers ST + StoQuarz 0.3-0.8 3) Prime coating of StoPox WG 100 Apply StoPox WG 100 tinted in accordance with the relevant Technical Data Sheet. 4) Optional: StoPox WB 50 to fill pores and blow-holes over a wide area StoPox WB 50 should be applied by machine using spray equipment. For filling small areas, manual application is also possible. To close pores and blow-holes > 0.5 mm, apply StoCrete WB 50 by thinly scraping with a square trowel. Then apply wet-on-wet For smoothing large areas of StoPox WB 50, we recommend using a Sto-Special Smoothing Trowel 800 x 130 mm. Note for applying StoPox WB 50 by machine: Spray equipment: Graco Mark X		

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Spray nozzle: 639 HDA-531

Waiting time until the next layer at +20 °C: approx. 12 hours

5) Intermediate coat of StoPox TU 100
application of the StoPox TU 100 product Carried out in accordance with the technical data sheet.

6a) Finishing coat of StoPox TU 100
application of the StoPox TU 100 product Carried out in accordance with the technical data sheet.

6b) Optional: finishing coat of StoPur WV 60
Apply StoPur WV 60 in accordance with the relevant Technical Data Sheet.

Please note:

Ensure sufficient ventilation when applying water-based coating systems. Different layer thicknesses, too high humidity ($\geq 85\%$), and too low temperatures ($< +8\text{ °C}$) can lead to visual defects. At the start of coating work, relative humidity should not be above 70 %. Monitor the climate during application. Ensure there is no condensate on the surface while the material is curing.

Cleaning the tools

Clean with water.
If any material adhesion occurs, for example on the spray nozzle, we recommend cleaning with e.g. StoDivers EV 100 or StoCryl VV.

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 white

Packaging pail and tin

Article number	Name	Container
00535/005	StoPox WB 50 Set	25 kg set

Storage

Storage conditions Store in dry and frost-free conditions. Avoid direct sunlight.

Storage life In the original container until ... (see packaging).

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Identification

Product group Intermediate coat

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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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"

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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.

Technical Data Sheet

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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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