Technical Data Sheet

StoPox BV 100

EP primer / EP sealer

Characteristics

Area of application	• as a priming coat, sealing coat, and scratch coat under bitumen sheets and PUR waterproofing on concrete
Properties	• very good bond to the substrate and subsequent waterproofing • high degree of heat resistance when applying the bitumen sheet • highly suitable for fresh concrete • matching viscosity for optimum penetration in the concrete substrate • very good early water resistance • no carbamate formation
Appearance	• red-brown
Information/notes	• tested in accordance with TL/TP-BEL-EP, TL/TP-BEL-B1, TL/TP-BEL-B3

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Shore hardness type D	EN ISO 868	65 - 71	
Density (mixture 23 °C)	EN ISO 2811	1,03 - 1,10 g/cm³	

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

Requirements on the substrate:
The concrete substrate must be dry, load-bearing, and free from native and foreign substances that have a separating action.
Remove less strong layers and laitance.

Dry in accordance with the definition in ZTV-ING (German directive), 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.

Fresh concrete can be sealed after 7 days.

	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
Preparations	Use mortar to reprofile recesses deeper than 5 mm. 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: +30 °C
Time for application	At +10 °C: approx. 45 minutes At +23°C: approx. 25 minutes At +30 °C: approx. 15 minutes Do not apply if the substrate temperature is rising!
Mixing ratio	component A : component B = 3.6 : 1.0 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. After mixing, transfer into a clean container and stir again thoroughly. Do not apply from the delivery container! When using the product as a scratch coat, add up to 3 parts by weight of StoZuschlag KS, mix again thoroughly, and apply immediately. The temperature of the individual components must be min. +15 °C when mixing.

Consumption

Type of application	Approx. consumption	
used in primer	0,3 - 0,5	kg/m²
as sealer	0,5 - 0,8	kg/m²
as a scratch coat	0,5 - 0,8	kg/m²/mm

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	1) Substrate preparation 2) StoPox BV 100 3) Bitumen sheets in accordance with ZTV-ING Part 7, Section 1 (single-layer bitumen sheet) or StoPur BA 2000 in accordance with ZTV-ING Part 7, Section 3 (liquid-applied bridge deck waterproofing)
Application	Observe the implementation instructions for bitumen sheets or StoPur BA 2000. 1) Substrate preparation 2) Prime coating/sealing coat/scratch coat Version 1: Prime coating: Flood apply the mixed StoPox BV 100 onto the substrate and spread it using a rubber squeegee. Leave to react for 5 minutes. Then roll evenly with a roller. Consumption of StoPox BV 100: 0.3 - 0.5 kg/m² Scatter StoQuarz 0.3 - 0.8 mm evenly, grain by grain, over the fresh prime coating. After curing, remove loose quartz sand by sweeping or suction cleaning. Version 2: Prime coating and sealing coat: Element of systems with bitumen sealing sheeting (ZTV-ING TL/TP-BEL-B1) Flood apply the mixed StoPox BV 100 onto the substrate and spread it using a rubber squeegee. Leave to react for 5 minutes. Then roll evenly with a roller. Consumption of StoPox BV 100: 0.3 - 0.5 kg/m² Scatter StoQuarz 0.6 - 1.2 mm evenly onto the fresh prime coating. After curing, remove loose quartz sand by sweeping or suction cleaning. Spread the mixed StoPox BV 100 over the primed and scattered surface using a rubber squeegee, then roll evenly with a roller. Consumption of StoPox BV 100: 0.6 - 0.8 kg/m² Version 3: Prime coating and scratch coat to level roughness depths of 1.5 to 5 mm: Flood apply the mixed StoPox BV 100 onto the substrate and spread it using a rubber squeegee. Leave to react for 5 minutes. Then roll evenly with a roller. Consumption of StoPox BV 100: approx. 0.3 - 0.5 kg/m² Apply a scratch coat consisting of 1 part by weight of StoPox BV 100 and up to 3 parts by weight of Sto Zuschlag KS on to the fresh, unscattered prime coating.

Consumption per mm of layer thickness: StoPox BV 100: 0.5 kg/m² Sto Zuschlag KS: 1.5 kg/m²

Evenly scatter StoQuarz 0.3 - 0.8 mm over the fresh scratch coat. Avoid bald spots - if necessary, apply more scatter to the gaps until the scratch coat starts to gel.

After curing, remove loose quartz sand by sweeping or suction cleaning.

Cleaning the tools	After every work interruption, clean tools and working equipment using StoDivers EV 100.
Notes, recommendations, special information, miscellaneous	General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.

Delivery

Article number	Name	Container
04930/006	StoPox BV 100 Set red brown	30 kg set
04930/005	StoPox BV 100 Set	30 kg set
04930/003	StoPox BV 100 Set	727.7 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
GISCODE	RE75
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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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.

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