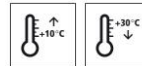


Technical Data Sheet

StoPox 452 EP

EP primer for damp substrates



Characteristics

Area of application	- interior and exposed to the weather - on floors - capillary and pore waterproofing of cementitious substrates - as a priming coat on non-mineral substrates such as stainless steel flanges and existing load-bearing epoxy resin coatings - as a priming coat on balconies
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Properties	- very good adhesive bond on mineral substrates and stainless steel - contains de-airing additives
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Appearance	transparent
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Information/notes	product is in accordance with EN 1504-2
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Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	EN 1542	> 2,0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	750 - 950 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1,03 - 1,09 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	Requirements on the substrate: The substrate can be dry or damp, but must be load-bearing and free from native and foreign substances that have a separating action. Remove less strong layers and laitance. Dry or damp in accordance with the definition in the DAfStb (German) Repair Guideline 2001-10
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Substrate temperature higher than +10 °C and 3 K above dew point.

Average bond strength: 1.5 N/mm²

Bond strength, lowest single value: 1.0 N/mm²

Stainless steel surfaces SA 2 1/2 - metallic bright in accordance with EN ISO 12944-4.

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: +10 °C
Highest application temperature: +30 °C
max. approved relative humidity: 85 %

Time for application

At +10 °C: approx. 50 minutes
At +20 °C: approx. 25 minutes
at +30 °C: approx. 10 minutes

Mixing ratio

component A : component B = 100.0 : 45.0 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

0,3 - 0,6

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

1) Substrate preparation

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- 2) Prime coating of StoPox 452 EP
 - 3) Scratch coat (optional, e.g. roughness > 0.5 mm)
 - 4) Finishing coat
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Application

1) Substrate preparation

2) Prime coating

Apply StoPox 452 EP with a rubber squeegee, flooding until the substrate is totally free of pores, and then evenly spread the material by rolling/brushing. Avoid forming puddles. Apply StoPox 452 EP primer in one or more application cycles depending on the substrate.

Consumption: approx. 0.3 - 0.6 kg/m², depending on the roughness of the substrate

If there is a waiting time of more than 72 hours until the next coating, lightly sand the prime coating and prime again or apply some scatter.

Scatter with StoQuarz 0.1 - 0.5 mm

Consumption: approx. 1.0 kg/m²

3) Scratch coat

Prime with StoPox 452 EP.

Consumption: approx. 0.3 - 0.6 kg/m² and application cycle

Apply a scratch coat, consisting of 1 part by weight StoPox GH 452 EP and up to 2 parts by weight StoQuarz 0.1 - 0.5 (StoDivers ST thixotropic additive can be added) on to the prepared and primed substrate.

Apply the product using a smoothing trowel, a squeegee with triangular notching, and a spiked roller.

Consumption of StoPox 452 EP: approx. 0.6 - 0.7 kg/m² and mm of layer thickness

Consumption of StoQuarz 0.1 - 0.5 mm: approx. 1.2 - 1.4 kg/m² and mm of layer thickness

consumption: approx. 1.0 - 3.0 kg/m²

4) Finishing coat

e.g. StoPur EA or StoPur EB 200, StoPox KU 601 in accordance with the relevant

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Drying, curing, ready for next coat	Reworking time: At +10°C: approx. 28 h At +23°C: approx. 14 h At +30°C: approx. 10 h
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Cleaning the tools	Clean with StoCryl VV.
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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.
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Delivery

Packaging	pail and tin
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Article number	Name	Container
14062/028	StoPox 452 EP Set	10 kg set
14062/027	StoPox 452 EP Set	4 kg set
14062/026	StoPox 452 EP Set	23 kg set

Storage

Storage conditions	Store in dry and frost-free conditions. Avoid direct sunlight.
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Storage life	In the original container until ... (see packaging).
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Identification

Product group	Primer
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GISCODE	RE90 (formerly RE 30)
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Safety	This product is subject to compulsory labelling in accordance with the current EU
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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.

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

Technical Data Sheet

StoPox 452 EP

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