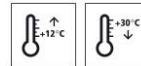


Technical Data Sheet

StoPox CS 100

EP sealer, transparent



Characteristics

Area of application

- interior areas and areas exposed to weathering
- on floor areas
- as epoxy resin binder with low tendency to yellowing, for producing sealing coats
- as a binding agent for colour quartz coatings
- slip-resistant sealing coat in combination with StoBallotini solid glass beads
- as a sealing coat for StoPox coatings with scattered chips

Properties

- low viscosity
- contains de-airing additives

Appearance

- transparent
- gloss
- high colour brilliance

Information/notes

- Product is in accordance with EN 1504-2
- formerly StoPox EP Dicksiegel

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	510 - 780 mPa.s	Mixture
Shore hardness type D	DIN 53505-D/EN ISO 868	> 35	
Density (mixture 23 °C)	EN ISO 2811	1.04 - 1.12 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:

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The substrate must be dry, load-bearing, and free from native and foreign release agents. Remove weak layers and laitance.

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. Residual moisture may amount to max. 4 wt% for concrete in strength classes up to C30/37 and max. 3 wt% for C35/45 concrete, measured with a calcium carbide meter.

Substrate temperature higher than +12 °C and 3 K above dew point.
Average bond strength 1.5 N/mm²
Lowest single bond strength 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.

Prepare old epoxy resin coatings additionally with abrasive grids or abrasive pads so they are matt. We recommend cleaning the prepared substrate with a water/ethanol mix (ratio 1 : 1).

Application

Application temperature

Lowest application temperature: +12 °C
Maximum approved relative humidity 75 %

Highest application temperature: +30 °C
Maximum approved relative humidity 85 %

Time for application

At +12 °C: approx. 50 minutes
At +23°C: approx. 25 minutes
At +30 °C: approx. 15 minutes

Mixing ratio

Component A : component B = 100.0 : 50.0 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 is at least 3 minutes.

After mixing, pour the compound into a clean container and mix again.
Do not apply from the delivery container!

The temperature of the individual components must be at least +15 °C when mixing.

Consumption

Type of application

Approx. consumption

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as sealer	0.2	kg/m ²
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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

Multi-layer, decorative, anti-slip colour quartz coating

- 1) Substrate preparation
- 2) Prime coating of StoPox GH 205
- 3) StoPox CS 100 self-levelling filler
- 4) Scattering
5. StoPox CS 100 sealing coat
- 6) Care treatment e.g. StoDivers P 105 (several processing steps are required)

Slip-resistant sealing coat with StoBallotini (solid glass beads) on EP self-levelling floor coating, e.g. StoPox BB OS, smooth or with chippings

- 1) Substrate preparation
2. StoPox CS 100 and Sto Ballotini sealing coat

Application

Multi-layer, decorative, anti-slip colour quartz coating (interior).

- 1) Substrate preparation

- 2) Prime coating of StoPox GH 205

Flood apply the mixed material with a rubber squeegee until the substrate is totally free of pores. Then evenly spread it by rolling/brushing. Avoid the formation of puddles.

Consumption: approx. 0.2 - 0.4 kg/m², depending on the roughness of the substrate

Scatter with StoQuarz 0.3 - 0.8 mm, consumption: approx. 1.0 - 1.5 kg/m²

- 3) StoPox CS 100 self-levelling filler

StoPox CS 100, filled with StoQuarz 0.01 mm or StoQuarz 0.1 - 0.5 mm (mixing ratio approx. 1 : 1 to 1 : 1.5 parts by weight, quartz sand mix 1 : 1 parts by weight).

Apply and evenly spread the mixed material with a squeegee (notching 48 or 95, Sto-Tool Catalogue). Then level and de-air with a spiked roller in a criss-cross pattern.

Consumption: approx. 1.5 - 1.7 kg/m² and mm of layer thickness (total mixture)

- 4) Scattering with e.g. StoQuarz 0.3 - 0.8 mm or a Röhrig Granit product in excess.

Sweep or suction clean the excess sand before applying the sealer.

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5. StoPox CS 100 sealing coat

Apply the product with a foam rubber squeegee, and then evenly spread it by rolling with a short-pile lambswool roller.

consumption of StoPox CS 100: approx. 0.5 - 1.2 kg/m², depending on the scattering

6) Care treatment using StoDivers P 105/StoDivers P 120 (optional)

When the industrial flooring is clean and has cured, evenly apply a thin layer of floor finish. 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. 30 - 50 ml/m² per application cycle

Avoid direct sunlight, high temperatures, and draughts during application.

Slip-resistant sealing coat with StoBallotini (solid glass beads) on EP self-levelling floor coating, e.g. StoPox BB OS, smooth or with chippings

1) Substrate preparation

StoPox BB OS substrate as a self-levelling mortar, with scattered chips if necessary.

Pre-treat the coating surface with a green abrasive pad.

2. StoPox CS 100 and Sto Ballotini sealing coat

Apply StoPox CS 100, filled with Sto Ballotini solid glass beads (diameter 180 - 300 µm or 250 - 425 µm). Added quantity: approx. 30 wt% Keep the mixture constantly moving (using a stirrer) to prevent deposits.

Closely trowel off the mixture over the grain using a steel trowel. In order to ensure the solid glass beads are evenly distributed, roll afterwards using a texturing roller (medium/coarse; Sto-Tool Catalogue) in a criss-cross pattern. Process the product quickly.

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Note:

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Protect surfaces coated with StoPox CS 100 from humidity for at least 7 days (at +21 °C).

Lower temperatures delay curing.

Despite a relatively high resistance to yellowing, a change in colour shade/yellowing must be expected.

Surface temperatures > +50 °C can also lead to dark discoloration.

This must also be taken into account when selecting the colour shade of the colour quartz and/or the coating below it, particularly in daylight.

Depending on exposure to chemicals, discolourations can occur. These do not, however, impair the technical function of the coating.

Cleaning the tools	Clean with StoCryl VV.
Notes, recommendations, special information, miscellaneous	The Declaration(s) of Conformity can be obtained from the StoCretec Technisches InfoCenter. General application instructions can be found at www.stocretec.de (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix.

Delivery

Packaging	Pail		
	Article number	Name	Container
	14204/005	StoPox CS 100 Set	25 kg set
	14204/001	StoPox CS 100 Combi	10 kg combi

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	Sealing coat
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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,
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and disposal.

Practical guide for dealing with epoxy resins: "Sicherer Umgang mit Epoxidharzen in der Bauwirtschaft".

And

Test report on the protective action of chemical protective gloves against epoxy resin coatings: "Handschuhe für lösemittelfreie Epoxidharz-Systeme"

and "Schutzhandschuhe: Richtig anwenden"

[Www.bgbau.de/gisbau/fachthemen/epoxi](http://www.bgbau.de/gisbau/fachthemen/epoxi)

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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.

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