

# Technical Data Sheet

## StoPox BB OS

EP industrial floor coating



### Characteristics

#### Application

- interior
- onto floor slabs
- coloured standard coating for industrial flooring, e.g. automotive industry
- as top sealing for scattered wearing surfaces of the tested StoCretec surface protection systems OS 8

#### Properties

- mechanical and chemical resistance
- very good flow and deairing properties
- free from additives which damage the lacquer

#### Appearance

- gloss

#### Information/notes

- Sealant on scattered OS 8 coatings
- product is in accordance with EN 1504-2
- product is in accordance with EN 13813
- limited spectrum of colours when used as sealing

### Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Tensile strength (28 days)	EN 1542	> 2.0 MPa	
Flexural strength (28 days)	EN ISO 178	> 30 MPa	
Viscosity (at 23 °C)	EN ISO 3219	1,400 - 2,300 mPa.s	mixture
Shore hardness D	DIN 53505-D/EN ISO 868	72 - 78	
Density (mixture 23 °C)	EN ISO 2811	1.41 - 1.49 g/cm <sup>3</sup>	
Taber abrasion	EN ISO 5470-1	60 mg	CS 10/1000U/1000g

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that 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 must be dry, load-bearing and free from characteristic or dissimilar separating substances.  
Less solid layers and slurry accumulations must be removed.

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Dry in accordance with the definition of the restoration guideline 2001-10, depending on the concrete quality, however. The residual moisture may amount to max. 4 weight per cent in case of concrete qualities of up to C30/37 and max. 3 weight per cent in case of C35/45 concrete, measured with the CM device.

Substrate temperature greater than +10°C and 3 K above dew point.  
Average tensile strength 1.5 N/mm<sup>2</sup>  
Smallest individual tensile strength value is 1.0 N/mm<sup>2</sup>

**Preparations** Prepare the substrate employing a suitable mechanical process such as shot-blasting, milling and subsequent shot-blasting, or blasting with solid abrasives.

#### Application

**Application temperature** Lowest application temperature: +8°C Max. permissible relative humidity 75%  
Highest application temperature: +30°C Max. permissible relative humidity 85%

**Processing time** At +10°C: approx. 50 minutes  
At +20°C: approx. 30 minutes  
At +30°C: approx. 15 minutes

**Mixing ratio** component A : component B = 100.0 : 25.0 parts by weight

**Material preparation** Component A and Component B are supplied in the correct mixing ratio and mixed in accordance with the following instructions. Stir component A, then add all of component B.  
Mix thoroughly with a slow-running stirrer (maximum 300 rpm) until a homogeneous, streak-free compound develops. It is also vital to thoroughly stir at the sides and bottom to ensure the hardener is uniformly distributed. Mixing time 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	
	per mm layer thickness, for a coating up to 1 mm	1.0 - 1.5	kg/m <sup>2</sup>
per mm layer thickness, for a coating of 1 - 3 mm	1.1	kg/m <sup>2</sup>	
as a sealing, depending on the scatter grain	0.6 - 0.8	kg/m <sup>2</sup>	

Material consumption depends on the application, substrate and consistency, amongst other factors. The specified consumption values are only to be used as a guide. If required, precise consumption values should be determined on the project.

**Coating procedure**

- 1) Surface preparation
- 2) priming coat with StoPox GH 205 / scatter material
3. Coating with StoPox BB OS (unfilled/filled depending on the layer thickness).
4. Care treatment with StoDivers P 105 / StoDivers P 120 (optional)

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1. Surface preparation
2. priming coat with StoPox GH 205 / scatter material
3. Coating with StoPox BB OS (unfilled/filled depending on the layer thickness) / scatter with StoQuarz
4. Sealing with StoPox BB OS or StoPox DV 100

Anti-skid multi-storey car park coating, OS 8, tested for damp penetration from the rear side

1. Surface preparation
2. Primer StoPox GH 502
3. Self-levelling filler with StoPox GH 502 (for roughness depths > 0.5 mm), scatter with StoQuarz
4. Sealing with StoPox BB OS

See the implementation instructions for the StoCretec surface protection system OS 8.6 and OS 8.10

#### Application

Smooth industrial floor coating, silicone free, medium mechanical and chemical resistance.

##### 1) Surface preparation

##### 2. Primer with StoPox GH 205

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

Consumption: approx. 0.3 - 0.5 kg/m<sup>2</sup>, depending on the roughness of the substrate.

We recommend a levelling filler for roughness depths > 0.5 mm

If it is not reworked within 48 hours, the fresh primer must be sanded with fire-dried quartz sand StoQuarz 0.1 - 0.5 mm or StoQuarz 0.3 - 0.8 mm, respectively(not excessively, but grain by grain).

Consumption of StoQuarz 0.1 - 0.5 mm: approx. 0.5 - 1.0 kg/m<sup>2</sup>

##### 3. Coating with StoPox BB OS

The mixed material is applied with a squeegee (48 or 95 toothing, Sto-Tool Catalogue), evenly spread and ventilated in a criss-cross pattern using a spiked roller.

The minimum consumption depends on the substrate and the requirements on the appearance/coverage. Layer thicknesses less than 0.5 mm normally lead to coating flaws on smooth substrates.

Coating up to 1 mm: Consumption StoPox BB OS: at least 1.0 - 1.5 kg/m<sup>2</sup>  
Coating with 1 to 2 mm: Consumption of StoPox BB OS: approx. 1.1 kg/m<sup>2</sup> and mm layer thickness Consumption of StoQuarz 0.1-0.5 mm: approx. 0.5 kg/m<sup>2</sup> and mm layer thickness Consumption of total mixture approx. 1.6 kg/m<sup>2</sup> and mm layer thickness

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Coating with 2 to 3 mm: Consumption of StoPox BB OS: approx. 1.1 kg/m<sup>2</sup> and mm layer thickness Consumption of StoQuarz 0.1-0.5 mm: approx. 0.7 kg/m<sup>2</sup> and mm layer thickness Consumption of total mixture approx. 1.8 kg/m<sup>2</sup> and mm layer thickness

4. Matting sealant StoPox WL 150 transparent (optional) Dilute the mixed material with approx. 15% water, mix again and apply with criss-cross movements using a nylon roller (pile length 13-14 mm). 1 to 2 application cycles may be required.

Consumption: approx. 0.13 - 0.15 kg/m<sup>2</sup> per application cycle  
We recommend laying StoPox WL 150 transparent with a 25 cm roll followed by subsequent rolling crosswise with a 50 cm large surface roller.

5. Care StoDivers P 105 / StoDivers P 120 (optional)  
Apply a thin layer of care treatment equally to the clean and cured industrial flooring. Apply material using a pre-dampened, lint-free mop. Leave the floor to dry sufficiently, approx. 20-30 min.

The second application is carried out across the previous application cycle. It is essential that drying times between application cycles are adhered to. Depending on the expected stress, several application cycles may be necessary.

Consumption: approx. 30 - 50 ml/m<sup>2</sup> per application cycle

Please observe: direct solar radiation, high temperatures and draughts during application should be avoided.

6. Increasing the slip resistance  
The fresh self-levelling coating can then be scattered with StoQuarz 0.3-0.8 mm or StoQuarz 0.6-1.2 mm to increase slip resistance. Other scatter materials such as Durop, corundum or granite sand are also possible.

Consumption of StoQuarz 0.3 - 0.8 or StoQuarz 0.6 - 1.2 mm: approx. 3.0 - 6.0 kg/m<sup>2</sup> depending on the layer thickness.

The total layer thickness is raised by at least 50% with the quartz sand scattering. Sweep or suction off the surplus quartz sand which has not been incorporated with an industrial vacuum after curing.

Sealing with StoPox BB OS / StoPox DV 100

The top sealing of quartz sands using the material can only be carried out in the approx. colour shades RAL 7001, 7023, 7030, 7032 7036, 7037, 7040, 7045 and 7046 due to the coverage. Use StoPox DV 100 for other colour shades.

Apply the mixed material and evenly spread using a rubber squeegee and then roll using a short-pile roller (Sto-Tool Catalogue) in a criss-cross pattern.

Consumption of StoPox BB OS (approx. RAL 7023, 7032, 7001): 0.6 - 0.8 kg/m<sup>2</sup> depending on the scatter grain Consumption of StoPox DV 100: 0.6 - 1.0 kg/m<sup>2</sup> depending on the scatter grain

Note:

Discolouring can occur depending on exposure to chemicals which do not,

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however, impair the features of the coating.  
Material consumption per m<sup>2</sup> rises due to increasing viscosities at low material and object temperatures.

We recommend pulling the coating off with the Sto-Upright Squeegee to support the ventilation behaviour at low temperatures.

StoPox DV 100 must be protected for approx. 36 hours (at +15°C) after application from any direct water impact.

The full chemical and mechanical resistance is achieved at + 23°C after 7 days. Low temperatures delay curing.

The yellowing which occurs under UV stress does not impair the technical properties.

### Drying, curing, ready for next coat

Reworking time:  
At +10°C: approx. 24 h  
At +23°C: approx. 14 h  
At +30°C: approx. 10 h

### Cleaning the tools

Clean with StoCryl VV.

### Indications, recommendations, special information, miscellaneous

The statement(s) of conformity can be obtained in the StoCretec Technical Information Centre  
General application instructions can be found at [www.stocretec.de](http://www.stocretec.de) (Products) and in the appendix of the current manual "Technical Data Sheets"

The wear class specified in the CE marking refers to the smooth, non sprinkled covering.

### Delivery

#### Colour shade

RAL colour fan, broad variety of colour shades

#### Packaging

Pail

Article number	Designation	Container
14152/042	StoPox BB OS Set	30 kg set
14152/026	StoPox BB OS Combi tinted	15 kg combi

### Storage

#### Storage conditions

Store in dry and frost-free conditions; avoid direct sunlight.

#### Storage life

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

### Certificates / approvals

09/6005/0S-8.6/328      StoCretec OS 8.6

Z-156.605-1221      GUT-00000925

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### Identification

**Product group** Coating

### Safety

This product is subject to compulsory designation under EU law. You will receive an EU Health & Safety Data Sheet with your first order. Please observe the information regarding the handling of the product, its storage and disposal.  
 Practical guide for dealing with epoxy resins: "Sicherer Umgang mit Epoxidharzen in der Bauwirtschaft" (Safely dealing with epoxy resins in the construction industry).  
 And  
 Test report on the protective action of chemical protective gloves against EP coatings: "Handschuhe für lösemittelfreie Epoxidharz-Systeme" (Gloves for solvent-free epoxy resin systems) and "Schutzhandschuhe: Richtig anwenden" (Protective gloves: Correct use)  
[www.gisbau.de/service/epoxi/Bericht.pdf](http://www.gisbau.de/service/epoxi/Bericht.pdf)

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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"  
 (Economic and safe building site facilities)

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### Special instructions

The information or data serves to ensure the product's intended use or its suitability for use and is based on our findings and experience. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.  
 Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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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