

StoPox BB OS

EP coating, industry







Characteristics	
Area of application	 interior on floor areas coloured standard coating for industrial flooring, e.g. automotive industry as a coloured sealant in the StoCretec surface protection system OS 8
Properties	 medium resistance to chemical and mechanical stress excellent flow and de-airing properties free from additives which damage the lacquer
Appearance	• gloss
Information/notes	 Product is in accordance with EN 1504-2 Product is in accordance with EN 13813

Criterion	Standard / test specification	Value/ Unit	Notes
Bond 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 type D	DIN 53505-D/EN ISO 868	72 - 78	
Density (mixture 23 °C)	EN ISO 2811	1.41 - 1.49 g/cm³	
Abrasion resistance according to Taber device	EN ISO 5470-1	60 mg	CS 10/1000U/1000g , approx.

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

Technical data



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Requirements	Requirements on the substrate: The substrate must be dry, load-bearing, and free froagents. Remove weak layers and laitance.	om native and for	reign release
	Dry in accordance with the definition in the DAfStb (0 2001-10. Residual moisture may amount to max. 4 v classes up to C30/37 and max. 3 wt% for C35/45 co calcium carbide meter.	vt% for concrete	in strength
	Substrate temperature higher than +10 °C and 3 K a Average bond strength 1.5 N/mm² Lowest single bond strength value 1.0 N/mm²	bove dew point.	
Preparations	Prepare the substrate using a suitable mechanical p milling and then shot-blasting, or abrasive blasting.	rocess such as s	hot-blasting,
Application			
Application temperature	Lowest application temperature: +10 °C Maximum approved relative humidity 75 %		
	Highest application temperature: +30 °C Maximum approved relative humidity 85 %		
Time for application	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 should be mixed in accordance with the following insthen add all of component B. Mix thoroughly with a slow-running paddle mixer (mathomogeneous, streak-free compound develops. It is the sides and the bottom in order to evenly distribute at least 3 minutes. After mixing, pour the compound into a clean contain Do not apply from the delivery container!	etructions. Stir co ax. 300 rpm) until also vital to stir t the hardener. M	mponent A, a horoughly at lixing time is
	The temperature of the individual components must mixing.	be at least +15 °	C when
Consumption	Type of application	Approx. cons	umption
	per mm layer thickness, for a coating up to 1 mm	1.0 - 1.5	kg/m²
	per mm layer thickness, for a coating of 1 - 3 mm	1.1	kg/m²

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as a sealer, depending on the scatter grain

0.6 - 0.8

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

Industrial floor coating, smooth

- 1) Substrate preparation
- 2) Prime coating of StoPox GH 205 and scattering
- 3) Coating of StoPox BB OS (unfilled/filled depending on the layer thickness)
- 4) Matting sealing coat of StoPox WL 150 transparent (optional)
- 5) Floor finish using StoDivers P 105/StoDivers P 120 (optional)

Industrial floor coating, slip-resistant

- 1) Substrate preparation
- 2) Prime coating of StoPox GH 205 / scattering
- 3) Coating of StoPox BB OS (unfilled/filled depending on the layer thickness) / scattering with StoQuarz
- 4) Sealing coat of StoPox BB OS or StoPox DV 100

Surface protection system OS 8, tested for rising moisture

- 1) Substrate preparation
- 2) Preparatory filler and surface protection layer of StoPox GH 502 or StoPox GH 530
- 3) Scatter a surplus of StoQuarz 0.3 0.8 mm
- 4) Sealing coat of StoPox BB OS

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

Application

Industrial floor coating, smooth

- 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. 0.3 - 0.5 kg/m², depending on the roughness of the substrate.

We recommend a levelling filler coating for roughness depths > 0.5 mm

If not reworking the fresh prime coating within 48 hours, scatter StoQuarz 0.1 - 0.5 mm or StoQuarz 0.3 - 0.8 mm kiln-dried quartz sand over it (not excessively, but

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grain by grain).

Consumption of StoQuarz 0.1 - 0.5 mm: approx. 0.5 - 1.0 kg/m²

3) Coating of StoPox BB OS

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

The minimum consumption depends on the substrate and the desired appearance/hiding power. On smooth substrates, layer thicknesses < 0.5 mm normally lead to surface defects.

Coating up to 1 mm:

Consumption of StoPox BB OS: at least 1.0 - 1.5 kg/m²

Coating of 1 to 2 mm:

Consumption of StoPox BB OS: approx. 1.1 kg/m² and mm layer thickness Consumption of StoQuarz 0.1 - 0.5 mm: approx. 0.5 kg/m² and mm layer thickness Consumption of total mixture approx. 1.6 kg/m² and mm layer thickness Coating of 2 to 3 mm:

Consumption of StoPox BB OS: approx. 1.1 kg/m² and mm layer thickness Consumption of StoQuarz 0.1 - 0.5 mm: approx. 0.7 kg/m² and mm layer thickness Consumption of total mixture approx. 1.8 kg/m² and mm layer thickness

4) Matting sealing coat of StoPox WL 150 transparent (optional) Dilute the mixed material with approx. 15 % water, mix again, and apply with a nylon roller (pile length 13 - 14 mm) in a criss-cross pattern.

1 to 2 application cycles may be necessary.

Consumption: approx. 0.13 - 0.15 kg/m² per application cycle We recommend decanting StoPox WL 150 transparent with a 25 cm roller and then rolling it in a criss-cross pattern using a 50 cm wide roller.

5) Floor finish 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

Industrial floor coating, slip-resistant

To increase slip resistance, scatter StoQuarz 0.3 - 0.8 mm or StoQuarz 0.6 - 1.2 mm over the fresh self-levelling coating. Other scatter materials such as DUROP, corundum, or granite sands are also possible.

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Consumption of StoQuarz 0.3 - 0.8 or StoQuarz 0.6 - 1.2 mm: approx. 3.0 - 6.0 kg/m² depending on the layer thickness.

The quartz sand scattering increases the total layer thickness by at least 50 %. After curing, sweep or suction off any surplus, loose quartz sand using an industrial vacuum cleaner.

Sealing coat of StoPox BB OS / StoPox DV 100

Using StoPox BB OS as a sealant on scatter coatings is only possible in the following colour shades due to its limited hiding power: RAL 7001, 7023, 7030, 7032 7036, 7037, 7040, 7045, and 7046. Use StoPox DV 100 for other colour shades.

Use a rubber squeegee to apply and evenly spread the mixed material, and then roll it 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/m² depending on the scatter grain

Consumption of StoPox DV 100: 0.6 - 1.0 kg/m² depending on the scatter grain

Surface protection system OS 8

1) Substrate preparation

2) Preparatory filler and surface protection layer of StoPox GH 502 or StoPox GH 530

Use a squeegee (48 or 95 notching, Sto-Tool Catalogue) to apply the material and spread it evenly. In order to guarantee the required layer thickness, we recommend checking the consumption and layer thickness while the material is still fresh.

Consumption for roughness depths up to 0.5 mm: approx. 0.8 kg/m² of StoPox GH 502 filled 1 : 1 with quartz sand 0.1 - 0.5 mm, or 1.2 kg/m² of StoPox GH 530 filled 1 : 0.7 with quartz sand 0.1 - 0.5 mm

If there is a risk of rising moisture and strongly absorbent substrates, we recommend applying a primer in advance.

Consumption: approx. 0.3 kg/m² of StoPox GH 502 or approx. 0.4 kg/m² of StoPox GH 530

- 3) Scatter a surplus of StoQuarz 0.3 0.8 mm Consumption: approx. 4 - 5 kg/m²
- 4) Sealing coat of StoPox BB OS Apply and spread the mixed material using Sto-Rubber Squeegee Profi (art. no. 17400-005). Then roll it using Sto-Varnish Roller Nylon RS 13 (art. no. 08278-004).

Note:



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The reduced hiding power of light colour shades (e.g. approx. RAL 7035) or brilliant colour shades (e.g. RAL 6018) can lead to a poor appearance. For light and special colour shades, we recommend consulting our Technical Information Centre to check whether there is an option to switch to a different product in the StoCretec programme.

We also recommend observing the implementation instructions for the respective surface protection system.

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

Depending on exposure to chemicals, discolourations can occur. These do not, however, impair the technical function of the coating. At low material and object temperatures, material consumption per m² increases due to the rise in viscosity.

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

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

Drying,	curing,	ready 1	for ne	xt
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.

Notes, recommendations, special information, miscellaneous

The Certificates of Compliance for the surface protection systems are available from the StoCretec GmbH Technical Information Centre.

For general application instructions, see www.stocretec.de (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix.

The abrasion resistance class specified in the CE marking refers to the smooth, not scattered covering.

	Article number	Name	Container
Packaging	Pail		
Colour shade	RAL colour fan, wide	e colour shade variety	
Delivery			



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14152/063	StoPox BB OS Combitinted StoPox BB OS Combitinted ee conditions; avoid direct sunli	30 kg set 15 kg combi ight.
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1.4152/072	StoPox BB OS Set tinted	20 kg oot
14152/090	StoPox BB OS Set tinted	40 kg set
14152/091	StoPox BB OS Set RAL7030	40 kg set
14152/092	StoPox BB OS Set RAL7032	40 kg set
14152/093	StoPox BB OS Set RAL7035	40 kg set
14152/094	StoPox BB OS Set RAL7038	40 kg set
14152/095	StoPox BB OS Set RAL9002	40 kg set
14152/096	StoPox BB OS Set RAL7001	40 kg set
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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.
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



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Berufsgenossenschaft der Bauwirtschaft Hildegardstrasse 28-30, 10715 DE-Berlin Tel. (+49) 30 85781-0, Fax. (+49) 30 85781-500, www.bgbau.de

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 Gutenbergstr. 6 D-65830 Kriftel

Tel.: +49 6192 401-104 Fax: +49 6192 401-105 stocretec@sto.com www.stocretec.de