

## StoPox BB OS

Epoxy self-levelling floor coating, industrial













Characteristics		
Area of application	<ul> <li>Interior</li> <li>On floor areas</li> <li>Coloured standard coating for industrial flooring, e.g. warehouses, offices</li> </ul>	
Properties	<ul> <li>Medium resistance to chemical and mechanical stress</li> <li>Excellent flow and de-airing properties</li> <li>Free from additives which damage the lacquer</li> </ul>	
Appearance	■ Gloss	
Information/notes	<ul> <li>Product is in accordance with EN 1504-2</li> <li>Product is in accordance with EN 13813</li> </ul>	

Tec	nnica	Data

Criteria	Standard / test specification	Value / Unit	Notes
Density	EN ISO 2811	1.41 – 1.49 g/cm <sup>3</sup>	
Compressive strength	ASTM C579	> 90 N/mm²	
Tensile strength	ASTM C307	> 15 N/mm <sup>2</sup>	
Flexural strength	ASTM C580	> 24 N/mm <sup>2</sup>	_
Adhesion strength	ASTM D7234	> 1.5 N/mm²	
Shore D hardness	ASTM D2240	78 – 83	
Viscosity	EN ISO 3219	1,200 - 1,900 mPa.s	
Water penetration	DIN 1048	0 mm	
Water absorption	ASTM C413	0 %	
Abrasion resistance according to Taber device	ASTM D4060	72 mg	CS 10 / 1000 cycle /1000g

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.

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Substrate	
Requirements	The substrate must be sound, dry, load bearing and free from native and foreign substances that have a separating effect. Remove less strong layers and laitance.
	The maximum moisture content of the substrate should not exceed 4% by weight measured with the CM device.
	Substrate temperature greater than +8°C and 3 K above dew point.
	Average adhesion strength >1.5 N/mm². Adhesion strength of the single smallest 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.



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Application			
Application temperature	Lowest application temperature: +8°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 c mixed in accordance with the following instructions.	orrect mixing ratio and should be	
	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 contain	er and stir it thoroughly once again.	
	The temperature of the individual components must b	e min. +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/m²	
	Per mm layer thickness, for a coating up to 1 - 3 mm	1.1 kg/m <sup>2</sup>	
	As a sealing coat, 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		
ooming same op	<ol> <li>Substrate preparation</li> <li>Prime coating of StoPox GH 205</li> <li>Scratch coat (optional, e.g. roughness &gt; 0.5 mm)</li> <li>Coating of StoPox BB OS (unfilled/filled depending Matting sealing coat of StoPox WL 150 transparer</li> <li>Care treatment using StoDivers P 105 / StoDivers</li> </ol>	nt (optional)	
	Industrial floor coating, slip-resistant		
	<ol> <li>Substrate preparation</li> <li>Prime coating of StoPox GH 205</li> <li>Scratch coat (optional, e.g. roughness &gt; 0.5 mm)</li> <li>Coating of StoPox BB OS (unfilled/filled depending)</li> <li>Scattering in excess of Sto Filler 30/60 or Sto Fille</li> <li>Sealing coat of StoPox BB OS or StoPox DV 100</li> </ol>		
Application	Industrial floor coating, smooth		
l. l.	Substrate preparation		
	Prime coating of StoPox GH 205     Apply in flood coat using a rubber squeegee and censure complete sealing of all substrate pores. Av		



### StoPox BB OS

Consumption: approx.  $0.20-0.30\ kg/m^2$ , depending on substrate and application conditions

If the coating is not to be overcoated within 48 hours, the fresh primer should be scattered off with Sto Filler 60/100 or Sto Filler 30/60 (not to excess, but grain to grain).

Consumption: approx.  $0.5 - 1.0 \text{ kg/m}^2$ .

3) Scratch coat (optional, for roughness depths > 0.5 mm)

For very rough substrate fill StoPox GH 205 1 : 1 by weight with Sto Filler 60/100 and Sto Filler SM 100 (50 : 50 pbw)

Consumption of StoPox GH 205 approx. 0.3 – 0.4 kg/m² Consumption of Sto Filler: approx. 0.3 – 0.4 kg/m² Consumption of ready filled mixture: approx. 0.6 – 0.8 kg/m²

4) Coating of StoPox BB OS

Apply the mixed material with a squeegee (48 or 95 notching) and evenly spread it. De-air by using a spiked roller in a criss-cross pattern. For thickness < 0.8mm use a loop roller instead.

The minimum consumption depends on the substrate and the desired appearance/hiding power.

On smooth substrates, layer thicknesses < 0.5 mm normally leads to surface defects.

#### Coating up to 1 mm:

Consumption of StoPox BB OS: at least 1.0 - 1.5 kg/m<sup>2</sup>

#### Coating of 1 to 2 mm:

Consumption of StoPox BB OS: approx. 1.1 kg/m²/mm layer thickness Consumption of Sto Filler 30/60: approx. 0.5 kg/m²/mm layer thickness Consumption of total mixture: approx. 1.6 kg/m²/mm layer thickness

#### Coating of 2 to 3 mm:

Consumption of StoPox BB OS: approx. 1.1 kg/m²/mm layer thickness Consumption of Sto Filler 30/60: approx. 0.7 kg/m²/mm layer thickness Consumption of total mixture approx. 1.8 kg/m²/mm layer thickness

Matting sealing coat of StoPox WL 150 transparent (optional)
 Dilute the mixed material with approx. 15% water and mix again.

Apply using a nylon roller (pile length 13 - 14 mm) in a criss-cross pattern. 1 to 2 application cycles may be required.

Consumption: approx. 0.13 - 0.15 kg/m² per application cycle

We recommend applying StoPox WL 150 transparent with a 25 cm roller and then rolling it in a criss-cross pattern using a 50 cm wide roller.

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 care treatment.

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.  $0.02-0.05\ \text{lit/m}^2\ \text{per application}$  cycle



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#### Industrial floor coating, slip-resistant

- 1) Substrate preparation
- 2) Prime coating of StoPox GH 205

Apply in flood coat using a rubber squeegee and distributed evenly by rolling down to ensure complete sealing of all substrate pores. Avoid puddle formation.

Consumption: approx.  $0.20-0.30\ kg/m^2$ , depending on substrate and application conditions.

If the coating is not to be overcoated within 48 hours, the fresh primer should be scattered off with Sto Filler 60/100 or Sto Filler 30/60 (not to excess, but grain to grain).

Consumption: approx.  $0.5 - 1.0 \text{ kg/m}^2$ .

3) Scratch coat (optional, for roughness depths > 0.5 mm)

For very rough substrate fill StoPox GH 205 1 : 1 by weight with Sto Filler 60/100 and Sto Filler SM 100 (50 : 50 pbw)

Consumption of StoPox GH 205 approx. 0.3 – 0.4 kg/m<sup>2</sup>

Consumption of Sto Filler: approx. 0.3 - 0.4 kg/m<sup>2</sup>

Consumption of ready filled mixture: approx. 0.6 - 0.8 kg/m<sup>2</sup>

4) Coating of StoPox BB OS

Apply the mixed material with a squeegee (48 or 95 notching) and evenly spread it. De-air by 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 leads to surface defects.

#### Coating up to 1 mm:

Consumption of StoPox BB OS: at least 1.0 - 1.5 kg/m<sup>2</sup>

#### Coating of 1 to 2 mm:

Consumption of StoPox BB OS: approx. 1.1 kg/m²/mm layer thickness Consumption of Sto Filler 30/60: approx. 0.5 kg/m²/mm layer thickness Consumption of total mixture: approx. 1.6 kg/m²/mm layer thickness

#### Coating of 2 to 3 mm:

Consumption of StoPox BB OS: approx. 1.1 kg/m²/mm layer thickness Consumption of Sto Filler 30/60: approx. 0.7 kg/m²/mm layer thickness Consumption of total mixture approx. 1.8 kg/m²/mm layer thickness

Scatter in excess of Sto Filler 30/60 or Sto Filler 16/30 over the fresh self-levelling coating.

Consumption of Sto Filler 30/60 or Sto Filler 16/30: 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.

5) 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 in a criss-cross pattern.

Consumption of StoPox BB OS: 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



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The reduced hiding power of light colour shades (e.g. 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 our Sto offering.

Exposure to direct sunlight, high temperatures, and draughts should be avoided during application.

Depending on chemical load, optical discolouration may appear. These do not however impair the technical function of the coating.

At low material and substrate temperatures, material consumption per m<sup>2</sup> increases due to the rise in viscosity.

Any 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 hours At 23°C: approx. 14 hours At 30°C: approx. 10 hours

Cleaning the tools

Tools must be cleaned immediately after use with cleaning solvent.

Notes, recommendations, special information, miscellaneous

Please consult the local sales office for further information and any site assistance

required.

#### **Delivery**

Colour

Basic range (PG 11) Special range (PG 12)

**Packaging** 

 Name
 Packing

 StoPox BB OS
 15 kg set

 StoPox BB OS
 30 kg set

#### Storage

Storage conditions

Store in cool dry conditions; avoid direct sunlight.

Storage life

This product has a shelf life of 12 months from the manufacturing date.

#### Identification

**Product group** 

Self-levelling

Safety

Please refer to Safety Data Sheet.

#### **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 <a href="https://www.sto-sea.com">www.sto-sea.com</a>.



### StoPox BB OS

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\*Product images may differ from the actual product.