

Technical Data Sheet

StoPox SL 100

EP coating, pre-filled, industry



Characteristics

Area of application	• on industrial flooring • in interiors • on concrete / cementitious screed (other substrates on request)
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Properties	• self-levelling • excellent flow and de-airing properties • good mechanical and chemical resistance • pre-filled with special extenders
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Appearance	• high-gloss
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Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	EN 1542	> 2 MPa	
Compressive strength	EN 12190		
Viscosity (at 23 °C)	ISO 3219	4.500 mPa.s	
Shore hardness type D	EN ISO 868	75	ca. RAL 7038
Density (23 °C)	EN ISO 2811	1,67 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	General: - Dry, load-bearing - Free from separating, native, or foreign substances - Remove weak layers. - Remove any accumulation of fine concrete particles on the surface. Dry substrate: - Depends on the compressive strength class - Dry in accordance with the definition in EN 1504-10
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Moisture content:

- Measure the moisture content of the concrete substrate with a calcium carbide meter.
- Moisture content for concrete qualities up to C30/37: max. 4 per cent by weight
- Moisture content for concrete qualities up to C35/45: max. 3 per cent by weight

Substrate temperature: at least +10 °C, 3 K above the dew point

Bond strength, average: 1.5 N/mm²

Bond strength, lowest single value: 1.0 N/mm²

Preparations

1) Prepare all the above-mentioned substrates using a mechanical method, see "Substrate, requirements".

Example:

- Shot-blasting
- Milling followed by shot-blasting
- Abrasive blasting

If necessary, chemically clean old, untreated concrete and worn paint coats with oil, grease, and similar contamination.

Wash off with an emulsifying cleaning agent.

Mill off existing paint coats down to the concrete.

Application

Application temperature Lowest application temperature: at least +12 °C air and substrate temperature.

Time for application At +20 °C: approx. 30 minutes

Mixing ratio component A : component B = 7 : 1 parts by weight
component A : component B = 4 : 1 percent by volume

Material preparation

Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions.
Thoroughly mix with a stirrer/paddle mixer for approx. 3 minutes until a homogeneous mass without lumps is produced.

Coating build-up

smooth coating

- 1) Primer: StoPox GH 205 (optional: StoPox SL 100)
- 2) Levelling coat: StoPox GH 205 (optional: StoPox SL 100)
- 3) Coating: StoPox SL 100

slip-resistant coating

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- 1) Primer: StoPox GH 205 (optional: StoPox SL 100)
- 2) Levelling coat: StoPox GH 205 (optional: StoPox SL 100)
- 3) Coating: StoPox SL 100
- 4) Scatter: StoQuarz 0.6-1.2 mm
- 5) Sealing coat: StoPox SL 100

Application

smooth coating

1) Primer:

for roughness depths of 0.5 mm

- StoPox GH 205, coverage: approx. 300–400 g/m²

- Alternatively, if the concrete floor is dry and of normal quality (C25-C35), prime with StoPox SL 100. coverage: approx. 0.5–0.8 kg/m²

- If there is a risk of rising damp and strongly absorbent substrates, we recommend applying a primer with StoPox GH 205, for example, in advance.

2) Levelling coat:

- for filling or levelling and for necessary repairs on floors, StoPox GH 205, coverage: approx. 0.5–0.8 kg/m²

3) Coating:

- 2 mm

- Apply StoPox SL 100 with a notched squeegee (Sto tool catalogue).

- rework with a spiked roller in a criss-cross pattern

- consumption approx. 3.2 kg/m²

slip-resistant coating

- 3 mm

- apply StoPox SL 100 with a notched squeegee (Sto tool catalogue) consumption approx. 1,6 kg/m²

- scatter quartz sand 0.3-0.8 mm or 0.6 - 1.2 mm in excess

- apply a sealing coat with StoPox SL 100, consumption approx. 1.0-1.3 kg/m², using a rubber squeegee and rework with a short-pile roller

Note:

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

Depending on the 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.

At +23 °C, the full chemical and mechanical resistance is achieved after 7 days.

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

The fillers consist of natural raw materials that can result in small black spots in the material. These may become visible when using light colour shades in particular.

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Drying, curing, ready for next coat	drying time at +20 °C: 10-12 hours mechanically and chemically fully resistant at +20 °C: 5-7 days
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Cleaning the tools	Clean tools with StoCryl VV. Remove cured material by mechanical means.
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Delivery

Colour shade	Colour shades in accordance with current colour shade overview
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	Article number	Name	Container
	68016/020	StoPox SL 100 DK Set RAL7040	30 kg set
	68016/016	StoPox SL 100 Set tinted	40 kg set
	68016/015	StoPox SL 100 Set tinted	30 kg set

Storage

Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight.
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Storage life	The product quality is best guaranteed in its unopened original container until its shelf life has expired. This information is included in the batch number on the container. Explanation of batch nos.: digit 1 = last digit of the year, digits 2 + 3 = calendar week, example: 2450013223 - storage life ends at week 45 in 2022 At least 12 months in the unopened packaging (+5 °C to +25 °C).
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Identification

Product group	Coating
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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.
Observe the 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 the Internet.

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