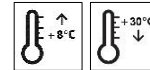


Technical Data Sheet

StoPox WHG Deck 100

Epoxy resin coating, tested and approved water protection systems



Characteristics

Area of application

- Interior and exposed to weathering
- As coloured coating for industrial flooring
- (HBV surfaces) with mechanical and chemical stress
- As a top coating in the StoCretec WHG system 1 (Z-59.12.309) and StoCretec WHG system 1 a (Z-59.12.310)

Properties

- Very high chemical-resistance
- Tested slip resistance
- Crack-bridging up to 0.4 mm (according to the national technical approval) and 0.2 mm and 0.5 mm (according to a separate test report without national technical approval)
- Suitable for vehicle traffic with Vulkollan and polyamide wheels
- Sensitive to humidity while curing

Information / notes

- Product is in accordance with EN 13813
- For water pollution protection according to § 62 WHG
- It is possible that some yellowing might occur in interior or exterior areas exposed to direct sunlight

Technical data

Criteria	Standard / test specification	Value / Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 N/mm ²	
Viscosity (at 23 °C)	EN ISO 3219	1,160 – 1.740 mPa.s	mixture
Shore hardness type D	DIN 53505-D/EN ISO 868	72 - 78	
Density (mixture 23 °C)	EN ISO 2811	1.16 - 1.24 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

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 % by weight for concrete in strength classes up to C30/37 and max. 3 % by weight for C35/45 concrete, measured with a calcium carbide meter.

Substrate temperature higher than +8 °C and 3 K above dew point. Average bond strength 1.5 N/mm²

Lowest single bond strength value 1.0 N/mm²

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Preparation	Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting or abrasive blasting.	
Application		
Application temperature	Lowest application temperature: +8°C and a max. of 75% relative humidity Highest application temperature: +30°C and a max. of 80% relative humidity	
Processing time	At +10°C: approx. 60 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	<p>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.</p> <p>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.</p> <p>After mixing, pour the compound into a clean container and mix again. Do not apply from the delivery container!</p> <p>The temperature of the individual components must be at least +15°C when mixing.</p>	
Consumption	Type of application	Approx. consumption
	as top coat (crack bridging up to 0.4 mm, national technical approval)	2.5 kg/m ²
	as top coat (0.2 mm crack bridging)	1.8 kg/m ²
	as top coat (0.5 mm crack bridging)	3.0 kg/m ²
	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	<p>Sto Cretec WHG System 1</p> <ol style="list-style-type: none"> 1. Substrate preparation 2. Prime coating of StoPox WHG Grund 100 3. Scratch coat of StoPox WHG Grund 100 (optional) 4. Coating of StoPox WHG Deck 100 <p>StoCretec WHG System 1 a (slip-resistant build-up)</p> <ol style="list-style-type: none"> 1. Substrate preparation 2. Prime coating of StoPox WHG Grund 100 3. Scratch coat of StoPox WHG Grund 100 (optional) 4. Coating of StoPox WHG Deck 100 5. Intermediate coat of StoPox WHG Deck 100 6. Scattering of StoQuarz 0.6 - 1.2 mm 7. Sealing coat of StoPox WHG Deck 100 	

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Application	<p>1.0 StoCretec WHG System 1 (Z-59.12-309)</p> <p>1.1. Substrate preparation</p> <p>1.2. Prime coating</p> <ul style="list-style-type: none">▪ Flood apply StoPox WHG Grund 100 with a foam rubber squeegee until the substrate is totally free of pores, and then evenly spread it by rolling. Avoid forming puddles <p>Consumption: approx. 0.3 - 0.5 kg/m², depending on the roughness of the substrate</p> <p>Rework in accordance with the time period indicated in the national technical approval. Do not scatter beforehand. In outdoor areas, sand the prime coating before applying the next coating.</p> <p>1.3. Scratch coat (for large substrate roughness)</p> <ul style="list-style-type: none">▪ Fill StoPox WHG Grund 100 with mixture 1:1 parts by weight of StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm. Apply the material using a smoothing trowel/squeegee with triangular notching and de-air with a spiked roller. Add StoDivers ST thixotropic additive if required. <p>Consumption: StoPox WHG Grund 100 approx. 0.6 - 0.7 kg/m² per mm layer thickness</p> <p>Consumption: quartz sand mixture made of StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm approx. 0.6 - 0.7 kg/m² per mm layer thickness</p> <p>Determine the exact amount of thixotropic additive required at the project, depending on the temperature and slope of the surface.</p> <p>1.4. Coating</p> <ul style="list-style-type: none">▪ Apply the material using a notched trowel/squeegee with triangular notching or rubber squeegee with coarse notching, and de-air with a spiked roller (notching 78 or 92, Sto tool catalogue). <p>Consumption: approx. 2.5 kg/m² Observe the consumption quantities as exactly as possible and check at regular intervals during coating</p> <p>2.0 StoCretec WHG System 1a (slip-resistant build-up, Z-59.12-310)</p> <p>2.1. Substrate preparation</p> <p>2.2. Prime coating</p> <ul style="list-style-type: none">▪ Flood apply StoPox WHG Grund 100 with a foam rubber squeegee until the substrate is totally free of pores, and then evenly spread it by rolling. Avoid forming puddles <p>Consumption: approx. 0.3 - 0.5 kg/m², depending on the roughness of the substrate.</p> <p>Rework in accordance with the time period indicated in the national technical approval without prior scattering. In outdoor areas, sand the prime coating before applying the next coating.</p>
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2.3. Scratch coat (for large substrate roughness)

- Fill StoPox WHG Grund 100 1 : 1 parts by weight with StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm. Apply the mixture using a smoothing trowel/squeegee with triangular notching and de-air with a spiked roller. Add StoDivers ST thixotropic additive if required.

Consumption: StoPox WHG Grund 100 approx. 0.6 - 0.7 kg/m² per mm layer thickness

Consumption: quartz sand mixture made of StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm approx. 0.6 - 0.7 kg/m² per mm layer thickness

Determine the exact amount of thixotropic additive required at the project, depending on the temperature and slope of the surface

2.4. Coating of StoPox WHG Deck 100

- Apply the material using a notched trowel/squeegee with triangular notching or a rubber squeegee with coarse notching, and de-air with a spiked roller (notching 78 or 92, Sto tool catalogue)

Consumption: 2.5 kg/m²

Observe the consumption quantities and check at regular intervals during coating.

After approx. 24 hours, apply StoPox WHG Deck 100 as an intermediate coat. Before applying the intermediate coat, gently roughen coating number 4 using a medium hard, slightly abrasive pad.

2.5. Intermediate coat

- Use a notched trowel to spread the material while kneeling. Adding approx. 5 % quartz sand 0.3 - 0.8 mm makes application easier. Scrape the material sharply over the grain.

Consumption approx 500 - 600 g/m²

2.6. Scattering

- Scatter the intermediate coat with StoQuarz 0.6 - 1.2 mm by throwing the sand from above so that it lies grain by grain. Do not throw in from the side!

Consumption approx 800 - 1000 g/m²

Sweep or suction cleans the surplus unbound sand.

2.7. Sealing coat

- Apply StoPox WHG Deck 100 as a top coat using a soft double-lipped foam rubber squeegee under pressure and re-roll

Consumption approx 300 - 400 g/m²

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3.0 Application on vertical surfaces :

3.1. Filler and levelling coat

- StoPox WHG Grund 100, filling degree 1 : 1 parts by weight with StoQuarz (StoQuarz 0.01 mm/StoQuarz 0.1 - 0.5 mm), adding approx. 4 wt% StoDivers ST.

Consumption of StoPox WHG Grund 100: approx. 500 g/m²

Consumption of StoQuarz 0.01 mm: approx. 250 g/m²

Consumption of StoQuarz 0.1 - 0.5 mm: approx. 250 g/m²

3.2. Coating

- For application on vertical surfaces, add up to max. 4 wt% thixotropic additive to StoPox WHG Deck 100 at an ambient room temperature.

Several application cycles may be necessary to achieve the required consumption rate.

Note: Full mechanical and chemical loading capacity: after 7 days. Depending on exposure to chemicals, discolourations can occur. These do not, however, impair the technical function of the coating.

Slight deviations in the colour shade are possible between different batches. Any yellowing which occurs under UV stress does not have any effect on the technical properties of the coating.

Observe the information on consumption, application, and execution in the national technical approvals!

Drying, curing, ready for next coat	Reworking time :- At +10°C: approx. 24 h At +23°C: approx. 18 h At +30°C: approx. 12 h
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Cleaning the tools	StoCryl VV / StoDivers EV 100
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Delivery

Colour shade	Limited colour choice
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Packaging	30 kg set
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Storage

Storage life & conditions	This product has a shelf life of 12 months from the manufacturing date. Product should always be stored in an unopened bag, dry place, protected from rain, direct sunlight and raised off the floor.
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Special notes

Health & Safety Please refer to Safety Data Sheet

Technical Support Please consult the local sales office for further information and any site assistance required.

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 www.sto-sea.com.

Sto SEA Pte Ltd
159 Sin Ming Road
#06-02 Amtech Building
Singapore 575625
Phone: +65 6453 3080
Fax: +65 6453 3543
info.sg@sto.com
www.sto-sea.com

Sto SEA Sdn Bhd
28, Jalan Rajawali 3
Bandar Puchong Jaya,
47170 Selangor, Malaysia
Phone: +60 3 8080 9066
Fax: +60 3 8080 9255
info.my@sto.com
www.sto-sea.com

Sto SEA Pte Ltd
3656/49-52 Green Tower, 16th Floor
Rama IV Rd, Klongton, Klongtoei,
10110 Bangkok, Thailand
Phone: +66 2 1684 921 Ext. 230
Fax: +66 2 1684 999
info.sg@sto.com
www.sto-sea.com

StoCretec GmbH
Gutenbergstr. 6
65830 Kriftel,
Germany
Phone: +49 6192 401 104
Fax: +49 6192 401 105
info.sg@sto.com
www.sto-sea.com

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