StoPox WHG Deck 105

EP coating, tested and approved water protection systems







Characteristics

Area of application

- interior and exposed to the weather
- as a coloured coating for industrial flooring (facilities for storing, bottling, and processing substances hazardous to water, as well as areas for the production, treatment, and use of water-polluting substances) exposed to mechanical and chemical stress
- for production areas in the food-processing industry
- as a top coat in the StoCretec WHG System 7 (Z-59.12.408)

Properties

- very high resistance to chemicals
- crack-bridging up to 0.2 mm
- for short-term cleaning +80 °C, if permanently wet max. +40 °C
- sensitive to humidity while curing
- suitable for vehicle traffic

Information/notes

- product is in accordance with EN 13813
- for water protection in accordance with § 62 German Federal Water Act (WHG)
- it is possible that some yellowing might occur in interior or exterior areas exposed to direct sunlight
- · various test certificates
- Visual changes cannot be ruled out in case of frequent temperature- and chemicals-related stress.

Technical data

Criterion	Standard / test	Value/ Unit	Notes
Criterion	specification	value/ Offic	
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	1,700 - 2,300 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1.35 - 1.39 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



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Requirements	The substrate must be dry, load-bearing, and free agents. Remove less strong layers and laitance.	e from native and fo	reign release
	Dry in accordance with the definition of the DAfSt 2001-10, but depending on the compressive stret may not exceed 4 CM per cent for concrete qualiper cent for C35/45 concrete, measured with a care	ngth class. The moisties up to C30/37 ar	sture content d max. 3 CM
	Substrate temperature higher than +8 °C and 3 K Average bond strength: 1.5 N/mm² Bond strength, lowest single value: 1.0 N/mm²	above dew point.	
Preparations	Prepare the substrate using a suitable mechanical milling and then shot-blasting, or abrasive blasting		hot-blasting,
Application			
Application temperature	Lowest application temperature: +10 °C and max Highest application temperature: +30°C and max		
Time for application	At +10 °C: approx. 90 minutes at +23 °C: approx. 40 minutes at +30 °C: approx. 20 minutes		
Mixing ratio	component A : component B = 100.0 : 31.0 parts	by weight (3.2 : 1)	
Material preparation	Component A and Component B are supplied in a should be mixed in accordance with the following then add all of component B. Mix thoroughly with a slow-running paddle mixer homogeneous, streak-free compound develops. It the sides and the bottom in order to evenly distributed at least 3 minutes. After mixing, pour the compound into a clean con Do not apply from the delivery container! The temperature of the individual components maxing.	instructions. Stir co (max. 300 rpm) unti it is also vital to stir to oute the hardener. M tainer and mix again	mponent A, a horoughly at lixing time is n.
Consumption	Type of application	Approx. cons	umption
	with 0.2 mm crack bridging in each case	1.5 - 2.0	kg/m²
	Material consumption depends on the application among other factors. The stated consumption val guide. If required, determine precise consumptior specific project.	ues are only to be u	sed as a



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Coating build-up

- 1) Prime coating of StoPox WHG Grund 105
- 2) Levelling coat of StoPox WHG Grund 105
- 3) Coating of StoPox WHG Deck 105

Application

Application:

1) Substrate preparation

2) Prime coating

Flood apply StoPox WHG Grund 105 with a foam rubber squeegee until the substrate is totally free of pores, and then evenly spread it by rolling. Avoid the formation of puddles.

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

Rework in accordance with the time period indicated, without prior scattering. In outdoor areas, sand the prime coating before applying the next coating.

3) Levelling coat

Fill StoPox WHG Grund 105 with 1:1 parts by weight with a mixture of StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm using a finishing trowel or squeegee with triangular notching, and de-air with a spiked roller.

Add StoDivers ST thixotropic additive if required.

consumption: StoPox WHG Grund 105 approx. 0.6 - 0.7 kg/m²/mm layer thickness Consumption: Sto quartz sand mixture StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm approx. 0.6 - 0.7 kg/m² per mm of layer thickness Determine the exact amount of thixotropic additive required at the project,

depending on the temperature and slope of the surface.

If applying quantities of 2 kg/m² or less, the substrate must be very level. Avoid consumption amounts under 1.5 kg/m², because lower layer thicknesses can result in flow problems and poor hiding power.

4) Coating

Apply the material using a notched trowel or squeegee with triangular notching or a rubber squeegee with coarse notching, and de-air with a spiked roller (notching e.g. 25, Sto Tool Catalogue)

The suitable notching depends on the user and project conditions. Determine it on site and then check the layer thickness.

Consumption: approx. 1.5 - 2.0 kg/m²

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



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Application on vertical surfaces:

1) Prime coating, adding approx 0.5 % StoDivers ST

2) Filler

StoPox WHG Grund 105, filling degree 1 : 1 parts by weight with StoQuarz (StoQuarz 0.01 mm or StoQuarz 0.1 - 0.5 mm), adding approx. 4 wt% StoDivers ST

consumption of StoPox WHG Grund 105: approx. 500 g/m² consumption of StoQuarz 0.01 mm: approx. 250 kg/m² consumption of StoQuarz 0.1-0.5 mm: approx. 250 kg/m²

3) Coating

For application on vertical surfaces, add StoPox WHG Deck 105 at ambient room temperature up to max. 4 wt% thixotropic additive.

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

Note:

Pewarking time:

Full mechanical and chemical loading capacity: after 7 days.

Depending on the 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!

In order to aid ventilation, immediately smooth the freshly-applied coating resin over the surface with a squeegee in a dragging motion.

Next, carefully re-roll the coating with a spiked roller.

coat	At +10°C: approx. 24 h At +23°C: approx. 18 h At +30°C: approx. 12 h
Cleaning the tools	StoDivers EV 100, StoCryl VV
Notes, recommendations, special information, miscellaneous	The declaration(s) of performance can be obtained from the StoCretec Technisches InfoCenter General application instructions are available at www.stocretec.de and in the notes

Drying curing ready for next



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of the latest Technical Manual.

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

Colour shade	limited colour choice	limited colour choice			
	Article number	Name	Container		
	08855/002	StoPox WHG Deck 105 Set RAL7032	30 kg set		
	08855/001	StoPox WHG Deck 105 Set tinted	30 kg set		
Storage Storage conditions	Store in dry and frost-free	e conditions. Avoid direct sun	light.		
Storage life	In the original container until (see packaging).				
Certificates/approvals					
	EPD-DBC-20220178-IBF1	Products based on epoxy resin, group 5 Environmental Product Declaration			
	Z-59.12-408	StoCretec WHG System 7 National technical approval			
Identification					
Identification Product group	Coating				



StoPox WHG Deck 105

mit-epoxidharzen/

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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.

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