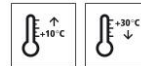


Technical Data Sheet

StoPur EZ 500

PUR elastic floating layer and wearing course for tested and approved surface protection systems for traffic structures



Characteristics

Area of application	<ul style="list-style-type: none"> interior exposed to the weather as the main effective surface protection layer, element in the tested and approved surface protection systems for multi-storey car parks: StoCretec OS 11a.20 and OS 11b.20
----------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Properties	<ul style="list-style-type: none"> dynamic crack-bridging can be filled with quartz sand on-site
-------------------	--------------------------------------------------------------------------------------------------------------------------

Information/notes	<ul style="list-style-type: none"> product is in accordance with EN 1504-2 product is in accordance with EN 13813 sensitive to humidity while curing
--------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811	1.19 g/cm ³	mixture
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Shore hardness type A	DIN 53505-D/EN ISO 868	65 - 67	
Viscosity (at 23 °C)	EN ISO 3219	3,000 - 4,000 mPa.s	

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	<p>General:</p> <ul style="list-style-type: none"> - Dry, load-bearing - Free from separating, native, or foreign substances - Remove weak layers. - Remove any accumulation of fine concrete particles on the surface. <p>Dry substrate:</p> <ul style="list-style-type: none"> - Depends on the compressive strength class - Dry according to the definition contained in the DAfStb (German) Repair
---------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Technical Data Sheet

StoPur EZ 500

Guideline, issue 2001-10.

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 CM per cent
- Moisture content for concrete qualities up to C35/45: max. 3 CM per cent

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

Application

Application temperature

substrate and air temperature
minimum temperature: +10 °C
maximum temperature: +30 °C

Application temperature:
minimum temperature: +10 °C
maximum temperature: +30 °C

Relative humidity:
maximum: 80 %

Time for application

at +10 °C: approx. 40 minutes
At +20 °C: approx. 30 minutes
At +30 °C: approx. 15 minutes

Mixing ratio

component A : component B
A : B
100.0 : 200.0 parts by weight

Material preparation

Notes:

- Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions:
- Observe the order of the "Preparing material" steps.
- The material temperature is between +15 °C and +25 °C.
- The temperature of all components is between +15 °C and +25 °C.

Technical Data Sheet

StoPur EZ 500

Mixing time:

- The length of the mixing time depends on the temperature of the material and the ambient temperature.
- Mix each container for the same length of time.

Possible consequences if mixing times are too long or too short:

- Mixing the product too long will shorten the time for application.

Preparing the material:

- 1) Stir component A.
- 2) Add all of component B.
- 3) Mix the components until the hardener is well distributed, the mixture is homogeneous, and a streak-free mass is produced.
Paddle mixer: slow running mixer, max. 300 rpm
Mixing time: at least 3 minutes
- 4) Ensure that the mixing equipment covers the bottom and the rim areas of the mixing container. The hardener must be evenly distributed.
- 5) Transfer the mixture to a clean container. Mix the components again.

Consumption	Type of application	Approx. consumption	
	as wearing course (roughness depth = 0.5 mm)	2.3	kg/m ²
	as wearing course (roughness depth = 1.0 mm)	2.6	kg/m ²
	as a floating layer (roughness depth = 0.5 mm)	2.1	kg/m ²
	as a floating layer (roughness depth = 1.0 mm)	2.6	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

- OS 11a.20 surface protection system
- 1) Prepare the substrate.
 - 2) Priming: StoPox GH 531
 - 3) Scatter: StoQuarz 0.3-0.8 mm
 - 4) Apply a crack-bridging, elastic floating layer, main effective surface protection layer: StoPur EZ 500
 - 5) Applying a wearing course: StoPur EZ 502
 - 6) Scatter: StoQuarz 0.3-0.8 mm
 - 7) Sealing: StoPox DV 502

StoCretec OS 11b.20 surface protection system

- 1) Prepare the substrate.
- 2) Priming: StoPox GH 500
- 3) Scatter: StoQuarz 0.3-0.8 mm
- 4) Apply an elastic floating layer and a wearing course, main effective surface protection layer: StoPur EZ 500
- 5) Scatter: StoQuarz 0.3-0.8 mm

Technical Data Sheet

StoPur EZ 500

6) Sealing: StoPox DV 502

Application

surface protection system OS 11a

1) Prepare the substrate.

2) Priming:

- StoPox GH 531
- Flood apply the product without pores. Tools: rubber squeegee
- Rework the product with a roller and spread evenly. Tools: short-pile roller sleeve
- consumption: approx. 0.3-0.4 kg/m² depending on the absorption capacity of the substrate
- Note: Avoid the formation of puddles.

3) Scatter:

- StoQuarz 0.3-0.8 mm
- Do not scatter an excess of the fresh prime coating.
- consumption: approx. 0.5 kg/m²

4) Apply a crack-bridging, elastic floating layer, main effective surface protection layer:

- StoPur EZ 500
- Remove the unbound quartz sand.
- Apply the product unfilled without quartz sand. Tools: squeegee, e.g. Sto-Notched Blade, notching: 95
- Spread the product evenly and de-air. Tools: spiked roller
- consumption: approx. 2.1 kg/m² at a roughness depth of 0.5 mm
- consumption: approx. 2.6 kg/m² at a roughness depth of 1.0 mm
- Note: Use spiked soles with blunt nails during scattering or de-airing to prevent damage to the membrane.

Note!

Overcoat the unscattered elastic floating layer:

- at +10 °C: within 72 h
- at +30 °C: within 18 h
- for details on the overcoating intervals: see the implementation instructions, Appendix A of the certificate of compliance DIN V 18026
- If the surface protection system OS 11 is applied to sloped surfaces: at an inclination of approx. 10 %, the elastic floating layer and wearing course must be applied in several application cycles to obtain the required layer thicknesses.

5) Applying a wearing course:

- StoPur EZ 502, filled with StoQuarz 0.1–0.5 mm
- mixing ratio for the self-levelling mortar: 1.0 parts by weight of StoPur EZ 502, 0.2 parts by weight of StoQuarz 0.1-0.5 mm
- Apply the product filled with quartz sand. Tools: squeegee, e.g. Sto-Notched Blade, notching: 48, 95

Technical Data Sheet

StoPur EZ 500

- Spread the product evenly and de-air. Tools: spiked roller
- consumption of StoPur EZ 502: approx. 1.9 kg/m²
- consumption of StoQuarz 0.1-0.5 mm: approx. 0.4 kg/m²
- Note: Use spiked soles with straight-edged nails during scattering or de-airing to prevent damage to the membrane.

6) Scatter:

- StoQuarz 0.3-0.8 mm
- Scatter the surface full-faced in excess.
- consumption: approx. 4-5 kg/m²

7) Sealing:

- StoPox DV 502
 - Remove the unbound quartz sand.
 - Apply the product evenly in a criss-cross pattern. Tools: rubber squeegee
 - Rework the product and spread evenly in a criss-cross pattern with a roller.
- Tools: short-pile roller sleeve
- consumption StoPox DV 502: approx. 0.6-0.8 kg/m²

B: surface protection system OS 11b.20

1) Prepare the substrate.

2) Priming:

- StoPox GH 500
- Flood apply the product without pores. Tools: rubber squeegee
- Rework the product with a roller and spread evenly. Tools: short-pile roller sleeve
- consumption: approx. 0.3-0.4 kg/m² depending on the absorption capacity of the substrate
- Note: Avoid the formation of puddles.

3) Scatter:

- StoQuarz 0.3-0.8 mm
- Do not scatter an excess of the fresh prime coating.
- consumption: approx. 0.5 kg/m²

4) Apply an elastic floating layer and a wearing course:

- StoPur EZ 500, filled with StoQuarz 0.1-0.5 mm
- mixing ratio: 1.0 parts by weight of StoPur EZ 500, 0.3 parts by weight of StoQuarz 0.1-0.5 mm
- Remove the unbound quartz sand.
- Apply the product filled with quartz sand. Tools: squeegee, e.g. Sto-Notched Blade, notching: 48, 95
- Spread the product evenly and de-air. Tools: spiked roller
- roughness depth: 0.5 mm
- consumption of StoPur EZ 500: approx. 2.3 kg/m²
- consumption of StoQuarz 0.1-0.5 mm: approx. 0.7 kg/m²
- roughness depth: 1.0 mm

Technical Data Sheet

StoPur EZ 500

consumption of StoPur EZ 500: approx. 2.6 kg/m²
consumption of StoQuarz 0.1-0.5 mm: approx. 0.8 kg/m²

5) Scatter:

- StoQuarz 0.3-0.8 mm
- Scatter the surface full-faced in excess.
- consumption: approx. 4-5 kg/m²

6) Sealing:

- StoPox DV 502
 - Remove the unbound quartz sand.
 - Apply the product evenly in a criss-cross pattern. Tools: rubber squeegee
 - Rework the product and spread evenly in a criss-cross pattern with a roller.
- Tools: short-pile roller sleeve
- consumption StoPox DV 502: approx. 0.6-0.8 kg/m²

Notes:

Tested coating system:

- material consumption in accordance with the DAfStb (German Committee for Reinforced Concrete) directive, edition October 2001: see the instructions for implementation, Appendix A of the certificate of compliance DIN V 18026

UV stress, colour shade deviation:

- Any yellowing which occurs under UV stress does not impair the technical properties. It is especially important to observe this when using light colour shades.
- Exposure of the chemicals may cause discolourations, which do not, however, impair the technical function of the coating.
- Slight deviations in the colour shade are possible between different batches.

Substrate temperature, ambient temperature:

- In addition to the ambient temperature, the substrate temperature is vital for the application of reaction resins.
- Low temperatures delay the chemical reactions.
- This extends the time for application, overcoating, and walking on it.
- The consumption per surface unit may rise due to increasing viscosity.
- High temperatures accelerate chemical reactions, reducing the time for application, overcoating, and walking on it.

Consumption, application:

- The details on consumption and application relate to horizontal surfaces.
- On inclinations: test a sample surface area first. If required, work in multi-layers and add thixotropic additive or more quartz sand to the materials.

Drying, curing, ready for next coat

suitable for foot traffic: after approx. 12 hours
subsequent coating: within 18-36 hours

Technical Data Sheet

StoPur EZ 500

Cleaning the tools Clean tools with StoDivers EV 100 or StoCryl VV.

Notes, recommendations, special information, miscellaneous

1) Observe the general application instructions:
 - see www.stocretec.de, Products
 - see technical manual, notes
 2) Observe the implementation instructions.

Declaration of performance, CE marking:
 - declaration of performance: see www.stocretec.de
 - The abrasion resistance specified in the declaration of performance refers to the smooth, not scattered covering.

Delivery

Colour shade grey, it is not possible to guarantee colour consistency

Packaging pail

Article number	Name	Container
04817/002	StoPur EZ 500 Set	30 kg set

Storage

Storage conditions Store in dry and frost-free conditions. Protect from direct sunlight. Avoid direct sunlight and excessive storage temperatures.

Storage life The product quality is best guaranteed in its unopened original container until its shelf life has expired. The first digit of the batch number is the final digit of the year. The second and third digits indicate the calendar week. Example: 1450013223 - shelf life until end of calendar week 45 in 2021. See product packaging

Identification

Product group Coating

Safety 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.

Technical Data Sheet

StoPur EZ 500

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