Technical Data Sheet

StoPur DV 506

Polyurea sealing coat for surface protection systems in traffic structures

Characteristics

Area of application	• interior • exposed to the weather • on floors • as a quick-curing sealing coat for the StoCretec surface protection systems
Properties	• UV-resistant • weather-resistant • abrasion-resistant • mechanical resistance • resistant to chemicals • good hiding power
Appearance	• gloss
Information/notes	• product is in accordance with EN 1504-2 • product is in accordance with EN 13813

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Viscosity (at 23 °C)		2,200 - 2,500 mPa.s	
Density (mixture 23 °C)	EN ISO 2811	1.4 g/cm³	

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 contained in the DAfStb (German Committee for Reinforced Concrete) Repair Guideline 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 weight percent - Moisture content for concrete qualities up to C35/45: max. 3 weight percent Substrate temperature: at least +5 °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 conditions	At +23 °C: approx. 10 minutes to avoid roll marks
Application temperature	substrate and air temperature minimum temperature: +5 °C maximum temperature: +30 °C Application temperature: minimum temperature: +5 °C maximum temperature: +30 °C Relative humidity: at least: 40 % maximum: 85 %
Time for application	at +23 °C: approx. 20 minutes
Mixing ratio	component A : component B A : B 100 : 27 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.

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 material:
1) Stir component A.
2) Add all of Component B.
3) Mix the components until the hardener is well distributed and the mixture is homogeneous. A streak-free mass is produced.
Paddle mixer: slow running mixer, max. 300 rpm
Mixing time: at least 3 minutes
4) Ensure the the mixing equipment covers the floor areas and the edge zones 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 sealer	0.5 - 1.0	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

Coating build-up:
1) Prepare the substrate.
2a) priming: e.g. StoPox GH 500
2b) scattering: e.g. StoQuarz 0.3 - 0.8 mm
3a) coating: e.g. OS 8 or OS 11
3b) scattering: e.g. StoQuarz 0.3 - 0.8 mm
4) sealing coat: StoPur DV 506

Application

Tools and equipment required:
- distribute StoPur DV 506: Sto-Rubber Squeegee Profi, art. no.: 17400-005
- subsequent rolling with StoPur DV 506: e.g. Sto-Micro-Fibre Roller Cover

	1) Prepare the substrate. 2a) Priming: - e. g. StoPox GH 500 2b) Scatter: - e.g. StoQuarz 0.3 - 0.8 mm - Scatter StoQuarz 0.3 - 0.8 mm full-surface so that no gaps remain. - Do not scatter a surplus of StoQuarz 0.3 - 0.8 mm. - consumption: approx. 0.5 - 1.0 kg/m² 3a) Coating: - e.g. OS 8 or OS 11 3b) Scatter: - e.g. StoQuarz 0.3 - 0.8 mm - Scatter StoQuarz 0.3 - 0.8 mm full-surface so that no gaps remain. - Scatter a surplus of StoQuarz 0.3-0.8 mm. 4) Sealing coat: - StoPur DV 506 - consumption: approx. 0.5 - 1.0 kg/m² - Spread the prepared material quickly and evenly over the scattered substrate and roll again if necessary. Note: - Visual discolouration may occur if coming into contact with chemicals. This does not impair the technical properties of StoPur DV 506. - Slight colour deviations and differences in the gloss level are possible between batches.
Drying, curing, ready for next coat	Time until the area is suitable for foot traffic: - After 3 - 8 hours - Depends on the layer thickness - Depending on the humidity: if humidity is higher, the material hardens faster. Fully resistant to mechanical stress: - After approx. 3 days Notes: - The technical data are approximate values. - The following conditions apply to the technical data determined. Constant normal laboratory conditions: +23 °C, relative humidity: 50 %, colour shade: RAL 7032
Cleaning the tools	Clean tools with StoDivers EV 100 or StoCryl VV.
Notes, recommendations,	1) Observe the general application instructions:

special information, miscellaneous	- see www.stocretec.de, products - see technical manual, notes 2) Observe the implementation instructions.

Delivery

Colour shade	wide colour shade variety great choice of colour shades in accordance with the StoColor System
Packaging	pail

Article number	Name	Container
08169/003	StoPur DV 506 tinted Set	25 kg set

Storage

Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight.
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

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.

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.

Technical Data Sheet

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