Technical Data Sheet

StoPur DV 503 transparent

Polyaspartic 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

Appearance

- gloss

Information/notes

- product is in accordance with EN 13813

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Water vapour diffusion-equivalent air layer thickness µ	EN ISO 7783	7.500 - 8.900	
Viscosity (at 23 °C)	EN ISO 3219	500 - 1.500 mPa.s	
Density (mixture 23 °C)	EN ISO 2811	1,1 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 in EN 1504-10 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 +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. 5 minutes to avoid roller marks
Application temperature	substrate and air temperature minimum temperature: +5 °C maximum temperature: +40 °C Application temperature: minimum temperature: +5 °C maximum temperature: +40 °C Relative humidity: minimum: 40 % maximum: 85 %
Time for application	At +23 °C: approx. 15 minutes
Mixing ratio	component A : component B A : B 100 : 80 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 the 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.
Paddle mixer: slow running mixer, max. 300 rpm
Mixing time: at least 3 minutes
4) Ensure that 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	0,4 - 0,9	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

1) Prepare the substrate.
2a) priming: e.g. StoPox GH 500
2b) broadcasting: e.g. StoQuarz 0.3–0.8 mm
3a) coating: e.g. OS 8 or OS 11
3b) e.g. StoQuarz 0.3 - 0.8 mm
4) Sealing: StoPur DV 503 transparent

Application

Tools and equipment required:
- spread StoPur DV 503 transparent: Sto-Rubber Squeegee Profi, art. no.: 17400-005
- rework StoPur DV 503 transparent with a roller: roller sleeve, e.g. Sto-Microfibre Roller Sleeve

1) Prepare the substrate.

2a) Priming:
- e.g. StoPox GH 500
2b) Scatter:

	- e.g. StoQuarz 0.3 - 0.8 mm - Broadcast 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 - Broadcast StoQuarz 0.3–0.8 mm full-surface so that no gaps remain. 4) Sealing: - StoPur DV 503 transparent - coverage: approx. 0.4–0.9 kg/m² - Spread the prepared material quickly and evenly over the broadcast substrate and rework with a roller again if necessary. Note: - If necessary, rework the material with a roller in one direction directly after application. - Replace the roller sleeve after 30 minutes with a new one to prevent any roller sleeve marks and bubble formation. Note: - Visual discolouration may occur if coming into contact with chemicals. This does not impair the technical properties of StoPur DV 503 transparent. - reworking later with a roller may cause fine air bubbles in the surface
Drying, curing, ready for next coat	Time until the area is suitable for foot traffic: - After 2-4 hours - Depending on the humidity: if humidity is higher, the material hardens faster. Fully resistant to mechanical stress: - At +23 °C: after approx. 6 hours Chemically fully resistant: - At +23 °C: after approx. 24 hours Notes: - The technical data are approximate values. - The following conditions apply to the technical data determined.
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.

Delivery			
Colour shade	transparent		
Packaging	Pail		
	Article number	**Name**	**Container**
	01653/002	StoPur DV 503 Set transparent	9 kg set
	01653/001	StoPur DV 503 Set transparent	18 kg set

Storage	
Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight.Store in tightly sealed original container in cool and frost-free conditions. Protect from direct sunlight.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. 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 See product packagingProvided the storage conditions are adhered to, the quality of the product in its unopened, original container is guaranteed until the maximum storage life has expired. The storage life can be deduced from the batch number of the container. Batch number explanation: Number 1 = the last number of year, numbers 2 + 3 = a calendar week example: 6450013223 – storage life until week 45 of 2026 Use promptly after opening. Contamination, e.g. due to a soiled tool, can shorten the shelf-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 See product packaging

Identification	
Product group	Sealing coat

Technical Data Sheet

StoPur DV 503 transparent

GISCODE	PU10

Safety	This product is subject to compulsory labelling in accordance with the current EU 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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