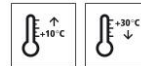


# Technical Data Sheet

## StoPur DV 505

PUR sealer, with low solvent content, for tested surface protection systems in traffic structures



### Characteristics

- Area of application**
- interior
  - exposed to the weather
  - as a sealing coat for the scattered wearing course
  - for parking decks in areas with direct sunlight

- Properties**
- viscoplastic
  - UV-resistant
  - weather-resistant
  - abrasion-resistant

- Appearance**
- silk matt

- 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
Viscosity (at 23 °C)	EN ISO 3219	800 mPa.s	mixture
Volume of non-volatile matter		> 70 %(V)	
Density (mixture 23 °C)	EN ISO 2811	1.3 g/cm <sup>3</sup>	

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.

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**Dry substrate:**

- Depends on the compressive strength class
- Dry according to the definition contained in the DAfStb (German) Repair 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/mm<sup>2</sup>

Bond strength, lowest single value: 1.0 N/mm<sup>2</sup>

**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: 85 %

**Time for application**

At +20 °C: approx. 30 minutes

**Mixing ratio**

component A : component B  
A : B  
100 : 22 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.

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### 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, 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 sealer	0.6 - 1.0	kg/m <sup>2</sup>

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.
	2) Primer: 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: StoPur DV 505

Application	1) Prepare the substrate.
	2) Priming:
	- StoPox GH 531
	- Flood apply the product without pores. Tools: rubber squeegee
	- Rework the product and spread evenly with a roller. Tools: short-pile roller sleeve
	- consumption: approx. 0.4 kg/m <sup>2</sup>
	3) Scatter:

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- StoQuarz 0.3-0.8 mm
- Do not scatter an excess of the fresh prime coating.
- consumption: approx. 0.5 - 1.0 kg/m<sup>2</sup>

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

- StoPur EZ 500
- Apply the product unfilled without quartz sand. layer thickness: at least 1.5 mm, tool: squeegee with triangular notching
- Rework the product in a criss-cross pattern for ventilation. Tools: spiked roller
- consumption: approx. 2.1 kg/m<sup>2</sup>
- Note: Use spiked soles with straight-edged nails during scattering or de-airing to prevent damage to the membrane.

5) Applying a wearing course:

- StoPur EZ 502, filled with StoQuarz 0.1–0.5 mm
- Waiting time: Apply the wearing course after 18-36 hours.
- 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 self-levelling mortar in the required layer thickness.
- consumption of StoPur EZ 502: approx. 1.9 kg/m<sup>2</sup>
- consumption of StoQuarz 0.1-0.5 mm: approx. 0.4 kg/m<sup>2</sup>

6) Scatter:

- StoQuarz 0.3-0.8 mm
- Scatter the surface full-faced in excess.
- Recommendation: Scatter heavily stressed surfaces according to the grain size, e.g. with DUROP or with granite chippings from Röhrig. see <http://www.roehrig-granit.de>
- consumption of StoQuarz 0.3-0.8 mm: approx. 5-6 kg/m<sup>2</sup>
- consumption of DUROP or granite chippings: approx. 5-8 kg/m<sup>2</sup>

7) Sealing coat:

- StoPur DV 505
- 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: approx. 0.6-1.0 kg/m<sup>2</sup>, depending on the scattering

Notes:

UV stress, colour shade deviation:

- 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.

Sealing coat:

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- layer thickness: < 0.5 mm
- Mechanical use reduces the layer thickness. This can shorten the service life.

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.

Curing:

- full chemical and mechanical resistance: after 7 days at +23 °C
- Low temperatures delay curing.
- During curing: water on the surface can cause carbamate formation and give the surface a whitish appearance. Moisture can cause a sticky surface.

<b>Drying, curing, ready for next coat</b>	<p>suitable for foot traffic: after approx. 16 hours</p> <p>completely cured: after approx. 7 days</p> <p>All technical details are approximate values and were determined, unless otherwise stated, at a normal temperature of +23 °C, 50 % relative humidity, and using the standard colour shade RAL 7032.</p>
<b>Cleaning the tools</b>	Clean tools with StoDivers EV 100 or StoCryl VV.
<b>Notes, recommendations, special information, miscellaneous</b>	<p>1) Observe the general application instructions:</p> <ul style="list-style-type: none"> <li>- see <a href="http://www.stocretec.de">www.stocretec.de</a>, Products</li> <li>- see technical manual, notes</li> </ul> <p>2) Observe the implementation instructions.</p> <p>Declaration of performance, CE marking:</p> <ul style="list-style-type: none"> <li>- declaration of performance: see <a href="http://www.stocretec.de">www.stocretec.de</a></li> <li>- The abrasion resistance specified in the declaration of performance refers to the smooth, not scattered covering.</li> </ul>

### Delivery

**Colour shade** RAL - colour fan, wide colour shade variety

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## StoPur DV 505

<b>Packaging</b>	pail and tin		
	<b>Article number</b>	<b>Name</b>	<b>Container</b>
	04885/003	StoPur DV 505 Set tinted	22 kg set
<b>Storage</b>			
<b>Storage conditions</b>	Store in dry and frost-free conditions. Protect from direct sunlight.		
<b>Storage life</b>	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

<b>Product group</b>	Sealing coat
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<b>Safety</b>	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.
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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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