Technical Data Sheet
StoPur DV 508

PUR sealer for multi-storey car park surface protection systems, low solvent content

Characteristics

Area of application

- interior areas and areas exposed to weather conditions
- for parking decks in areas with direct sunlight

Properties

- viscoplastic
- UV- and weather-resistant
- abrasion-resistant
- low solvent content

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
Viscosity (at 23 °C)	EN ISO 3219	800 - 1,300 mPa.s	mixture
Volume of non-volatile matter		84 - 86 %(V)	
Density (mixture 23 °C)	EN ISO 2811	1.33 - 1.38 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

Requirements on the substrate:
The substrate must be dry, load-bearing, and free from native and foreign release agents. Remove weak layers and laitance.

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. The moisture content may not exceed 4 CM per cent for concrete qualities up to C30/37 and max. 3 CM per cent for C35/45 concrete, measured with a calcium carbide meter.

Substrate temperature higher than +10 °C and 3 K above dew point.

	Average bond strength: 1.5 N/mm² Bond strength, lowest single value: 1.0 N/mm²
Preparations	Substrate preparation: Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.

Application

Application temperature	Lowest application temperature: +10 °C Highest application temperature: +30 °C
Time for application	At +10 °C: approx. 60 minutes at +20 °C: approx. 40 minutes at +30 °C: approx. 20 minutes
Mixing ratio	component A : component B A : B 100.0: 46.5 parts by weight
Material preparation	Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions. Stir component A, then add all of component B. Mix thoroughly with a slow-running paddle mixer (max. 300 rpm) until a homogeneous, streak-free compound develops. It is also vital to stir thoroughly at the sides and the bottom in order to evenly distribute the hardener. Mixing time is at least 3 minutes. After mixing, pour the compound into a clean container and mix again. Do not apply from the delivery container! The temperature of the individual components must be at least +15 °C when mixing.

Consumption

Type of application	Approx. consumption	
as sealer	0.6 - 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	1) Substrate preparation 2.a) Prime coating of StoPox GH 530 2b) Prime coating and scratch coat of StoPox GH 530 3) Waterproofing membrane of StoPox TEP MultiTop 4) Wearing course of StoPox TEP MultiTop 5) Sealing coat of StoPur DV 508

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1) Substrate preparation

2.a) Prime coating of StoPox GH 530
Evenly apply the mixed primer to the prepared substrate using a rubber squeegee and then spread it evenly by rolling. Avoid the formation of puddles.

2b) Prime coating and scratch coat of StoPox GH 530
We recommend a scratch coat for roughness depths > 0.5 mm. Scatter the prime coating of StoPox GH 530 while it is still fresh with kiln-dried quartz sand 0.3 - 0.8 mm.

Consumption of StoPox GH 530: approx. 0.3 - 0.4 kg/m², depending on the roughness of the substrate

Scatter with kiln-dried quartz sand 0.3 - 0.8 mm: approx. 0.5 - 1.0 kg/m²
Please observe: do not scatter excessively, but grain by grain.

One day after applying the primer, remove the non-bound quartz sand.

Crack-bridging intermediate layer (main effective surface protection layer)

3) Waterproofing membrane of StoPox TEP MultiTop
Use a squeegee with triangular notching to apply the mixed StoPox TEP MultiTop unfilled as a waterproofing membrane in the required layer thickness, at least 1.5 mm, and rework with a spiked roller in a criss-cross pattern to de-air.

Consumption of StoPox TEP MultiTop: approx. 1.3 kg/m² per mm of layer thickness

Note:
If it is necessary to walk on the intermediate layer (main effective surface protection layer) when scattering or spiking the freshly applied wearing course, wearing spiked soles with blunt nails (e.g. Polyplan spiked shoes with blunt spikes 3800 S) is recommended to avoid any damage to the membrane.

4) Wearing course of StoPox TEP MultiTop
After a waiting time of approx. 12 hours and max. 24 hours, apply the self-levelling mortar consisting of 1.0 parts by weight StoPox TEP MultiTop and 0.2 parts by weight kiln-dried quartz sand 0.1 - 0.5 in the required layer thickness.

Finally, scatter the entire surface with a surplus of kiln-dried quartz sand 0.6 - 1.2 mm. We recommend scattering surfaces subject to higher stress with DUROP or a Röhrig Granit product depending on the required graining.

Consumption of StoPox TEP MultiTop: approx. 1.05 kg/m² per mm of layer thickness
Kiln-dried quartz sand 0.1 - 0.5 mm: approx. 0.55 kg/m² per mm of layer thickness

	Scatter with kiln-dried quartz sand 0.6 - 1.2 mm: approx. 3.5 kg/m²
	5) Sealing coat of StoPur DV 508 After a waiting time of approx. 12 - 24 hours, apply StoPur DV 508 quickly and evenly using a rubber squeegee, then if required roll using a roller.
	Consumption: 0.6 - 1.0 kg/m²
	Note: Depending on the exposure to chemicals, discolourations can occur. These do not, however, impair the technical function of the coating. Colour shades with organic pigments are particularly affected by this.
	The layer thickness for sealing coats is normally < 0.5 mm and decreases as a result of mechanical use. This should be taken into account with regard to the required service life.
	At low material and object temperatures, material consumption per m² increases due to the rise in viscosity.
Drying, curing, ready for next coat	Dust-dry: after approx. 5 hours Over-coatable: after approx. 8 hours Ready for foot traffic: after approx. 8 hours Fully cured: after approx. 7 days 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.
Cleaning the tools	After every work interruption, clean tools and working equipment using StoDivers EV 100.
Notes, recommendations, special information, miscellaneous	Only StoDivers ST may be used as a thixotropic additive. Otherwise, curing flaws may occur. General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual. The declaration(s) of performance can be obtained from the StoCretec Technisches InfoCenter

Delivery

Colour shade	wide colour shade variety

Article number	Name	Container

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	09497/002	StoPur DV 508 Set tinted	20 kg set

Storage

Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight.
Storage life	In the original container until ... (see packaging).

Identification

Product group	Sealing coat

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.

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