Technical Data Sheet
StoPox DV 100

EP sealing coat for scattered synthetic resin coatings, tested surface protection systems

Characteristics

Area of application

- interior
- exposed to the weather
- on floors
- as an elastic sealing coat on scattered, self-levelling coatings
- in areas where skid resistance is required
- as a component of the tested StoCretec OS 8, OS 10, OS 11 surface protection systems

Properties

- mechanical resistance
- resistant to chemicals
- very good hiding power on scattered intermediate layers
- clean with water for a short period: +80 °C, if permanently wet: maximum +40 °C

Appearance

- gloss

Information/notes

- product is in accordance with EN 1504-2
- product is in accordance with EN 13813
- various test certificates
- Frequent temperature and chemical exposure: visual changes may occur, e.g. discolouration.

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	1,300 - 1,900 mPa.s	mixture
Shore hardness type D	DIN 53505-D/EN ISO 868	67 - 73	Intended for approx. RAL 7032
Density (mixture 23 °C)	EN ISO 2811	1.38 - 1.46 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.

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Substrate

Requirements	The substrate must be a scattered prime coating or coating. 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 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/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: - Sweep - Suction clean 2) Check the coatings for resistance.

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 +10 °C: approx. 40 minutes At +23°C: approx. 25 minutes at +30 °C: approx. 15 minutes

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Mixing ratio

component A : component B
A : B
100.0 : 14.3 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, 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 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 a sealing coat, depending on the substrate	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) Prepare the substrate.
2) Priming: e.g. StoPox GH 502, or StoPox GH 530, or StoPox GH 205
3) Scatter: e.g. StoQuarz 0.3 - 0.8 mm
4) Apply an optional self-levelling mortar: e. g. StoPox BB OS
5) Scatter: e.g. StoQuarz 0.3 - 0.8 mm
6) Sealing: StoPox DV 100

Application

1) Prepare the substrate.

2) Priming:
- e.g. StoPox GH 502, or StoPox GH 530, or StoPox GH 205
- Flood apply the product. Tools: rubber squeegee
- Rework the product and spread evenly with a roller.
- Consumption: approx. 0.2-0.4 kg/m² depending on the absorption capacity of the substrate
- Note: Avoid the formation of puddles.

3) Scatter:
- e.g. StoQuarz 0.3 - 0.8 mm
- Do not scatter an excess of the fresh prime coating.
- consumption: approx. 0.5-1.0 kg/m²

4) Apply an optional self-levelling mortar:
- e. g. StoPox BB OS
- Apply the product. Tools: e.g. squeegee
- Spread the product evenly and de-air. Tools: spiked roller
- Consumption: depending on the material

5) Scatter:
- e.g. StoQuarz 0.3 - 0.8 mm
- Do not scatter an excess of the fresh prime coating.
- consumption: approx. 0.5 - 1.0 kg/m²

6) Sealing coat:
- StoPox DV 100
- Remove the unbound quartz sand.
- Apply the product evenly. 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/m², depending on the scattering
- Note: Avoid the formation of puddles.

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 complianceDIN V 18026

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

Material consumption:
- Viscosity is increased at low material and project temperatures. This increases

	for material consumption per m². 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. UV stress, colour shade deviation: - The yellowing which occurs under UV stress does not impair the technical properties. - Exposure of the chemicals may cause discolourations, which do not, however, impair the technical function of the coating. Colour shades with organic pigments are particularly affected by this.
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	RAL colour fan, wide colour shade variety
Packaging	pail

Article number	Name	Container
04848/027	StoPox DV 100 RAL7042 Set	30 kg set

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	04848/021	StoPox DV 100 Combi tinted	12 kg combi
	04848/020	StoPox DV 100 Set RAL7035	30 kg set
	04848/019	StoPox DV 100 Set RAL7032	30 kg set
	04848/018	StoPox DV 100 Set RAL7030	30 kg set
	04848/017	StoPox DV 100 Set tinted	30 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

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. Handling epoxy resins: “Praxisleitfaden für den Umgang mit Epoxidharzen”, (Practical guide for handling epoxy resins) and test report: “Prüfbericht zur Schutzwirkung von acht Chemikalienschutzhandschuhen gegenüber EP-Beschichtungen” (Test report on the protective effect of eight chemical protective gloves against EP coatings), Gloves: “Handschuhe für den Umgang mit lösemittelfreien Epoxidharzen” (Gloves for handling solvent-free epoxy resins), and Protective gloves: “Die richtige Anwendung von Schutzhandschuhen” (The correct use of protective gloves) Https://www.bgbau.de/themen/sicherheit-und-gesundheit/gefahrstoffe/umgang-mit-epoxidharzen/ Published by: BG BAU - Berufsgenossenschaft der Bauwirtschaft Hildegardstraße 29/30, 10715 DE-Berlin

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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung"

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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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