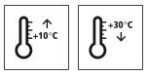
Technical Data Sheet
StoPox GH 502

EP primer, for tested surface protection systems in multi-storey car parks, resistant to rising damp

CE



Characteristics

Area of application

- interior
- exposed to the weather
- on floors
- on dry, cementitious substrates, e.g. concrete, screed
- as a component of the tested and approved surface protection systems OS 8, OS 11

Properties

- very good adhesive bond on mineral substrates
- tested for bond strength and bubble formation when subjected to rising damp
- can be filled with quartz sand on-site

Appearance

- transparent

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	EN 1542	> 2,0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	360 - 540 mPa.s	mixture
Shore hardness type D	DIN 53505-D/EN ISO 868	71 - 77	
Density (mixture 23 °C)	EN ISO 2811	1,05 - 1,11 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 the scatter sand which has not been integrated.

	- 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: - Shot-blasting - Milling followed by shot-blasting - Abrasive blasting

Application

Application temperature	Application temperature: minimum temperature: +10 °C Maximum temperature: +30 °C Relative humidity: maximum: 75 % at an application temperature of at least +10 °C maximum: 85 % at an application temperature of maximum +30 °C
Time for application	At +10 °C: approx. 60 minutes at +23 °C: approx. 40 minutes at +30 °C: approx. 20 minutes
Mixing ratio	component A : component B A : B 100.0 : 45.0 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 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 primer, depending on the substrate	0,2 - 0,3	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: StoPox GH 502
3) Scatter: StoQuarz 0.3-0.8 mm
4) StoCretec surface protection systems: OS 8, OS 11, in accordance with the implementation instructions of DIN V 18026

Application

1) Prepare the substrate.

2) Priming:
- StoPox GH 502
- Flood apply the product. Tools: rubber squeegee
- Rework the product with a roller and spread evenly.
- Consumption: approx. 0.2–0.3 kg/m², depending on the roughness of the substrate
- Note: Avoid the formation of puddles.

3) Scatter:

- StoQuarz 0.3-0.8 mm
- Scatter the fresh priming coat grain by grain without any surplus.
- consumption: approx. 0.5-1.0 kg/m²

4) Coating:
- StoCretec surface protection systems: OS 8, OS 11
- Application of the OS 8 surface protection systems: see the DIN V 18026 implementation instructions.

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

Drying, curing, ready for next coat	Reworking time: At +10°C: approx. 32 h At +23°C: approx. 12 h At +30°C: approx. 8 h
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

Packaging Pail

Article number	Name	Container
08167/004	StoPox GH 502 Set	28 kg set
08167/003	StoPox GH 502 Set	551 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:

Technical Data Sheet
StoPox GH 502

1450013223 - shelf life until end of calendar week 45 in 2021.
See product packaging

Identification

Product group	Primer
GISCODE	RE90
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 Tel. (+49) 30 85781-0, Fax. (+49) 800 6686688-37400, www.bgbau.de Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere Baustelleneinrichtung" Published by: Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (BAuA) Friedrich-Henkel-Weg 1-25, 44149 DE-Dortmund Tel. (+49) 231 9071-0, Fax. (+49) 231 9071-2454, E-mail: poststelle@baua.bund.de, homepage: www.baua.de

Technical Data Sheet
StoPox GH 502

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.

StoCretec GmbH
Gutenbergstr. 6
D-65830 Kriftel

Tel.: +49 6192 401-104
Fax: +49 6192 401-105
stocretec@sto.com
www.stocretec.de