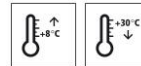


Technical Data Sheet

StoPox GH 502

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



Characteristics

- Area of application**
- interior areas and areas exposed to weathering
 - on floor areas
 - on dry, cementitious substrates such as concrete or screed surfaces
 - levelling coat for roughness depths > 0.5 mm
 - as a component of the tested surface protection systems OS 8 and 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 (28 days)	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/cm ³	

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 less strong layers and any scatter sand that has not been embedded.

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Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. Residual moisture may amount to max. 4 wt% for concrete qualities up to C30/37 and max. 3 wt% for C35/45 concrete, measured with a calcium carbide meter.

Substrate temperature higher than +8 °C and 3 K above dew point.

Average bond strength 1.5 N/mm²

Lowest single bond strength value 1.0 N/mm²

Preparations Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting, or diamond-grinding.

Application

Application temperature lowest application temperature: +8 °C
max. approved relative humidity: 75 %
highest application temperature: +30 °C
max. approved relative humidity: 85 %

Time for application at +8 °C: approx. 60 minutes
at +23 °C: approx. 40 minutes
at +30 °C: approx. 20 minutes

Mixing ratio component A : component B = 100.0 : 45.0 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 min. +15 °C when mixing.

Consumption	Type of application	Approx. consumption	
	as primer, depending on the substrate	0.2 - 0.3	kg/m ²

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 Standard prime coating under solvent-free, non water-based StoPox coatings

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(interior/exterior).

- 1) Substrate preparation
- 2) Prime coating of StoPox GH 502
- 3) StoCretec surface protection systems OS 8 and OS 11

Application

- 1) Substrate preparation

- 2) Prime coating

Flood-apply the mixed material with a rubber squeegee until the substrate is totally free of pores. Then evenly spread the material using a roller or brush. Avoid the formation of puddles.

consumption: approx. 0.2 - 0.3 kg/m², depending on the roughness of the substrate

Scattering with kiln-dried quartz sand StoQuarz 0.3 - 0.8 mm (not excessively, but grain by grain).

consumption: approx. 0.5 - 1.0 kg/m²

- 3) Scratch coat or roughness depth levelling up to 1 mm of layer thickness

Filling degree 1 : 1 parts by weight., consumption of the total mixture: approx. 1.50 kg/m² and per mm of layer thickness.

consumption of StoPox GH 502: approx. 0.7 - 0.8 kg/m² and mm layer thickness
consumption of StoQuarz 0.1 - 0.5 mm: approx. 0.7 - 0.8 kg/m²

Scatter kiln-dried quartz sand StoQuarz 0.3 - 0.8 mm or StoQuarz 0.6 - 1.2 mm onto the fresh self-levelling mortar layer.

consumption: approx. 3.0 - 5.0 kg/m²

- 4) Self-levelling mortar, layer thickness: 1.2 - 4.0 mm

Filling degree 1 : 2 parts by weight., consumption of the total mixture: approx. 1.8 kg/m² and per mm of layer thickness.

Consumption of StoPox GH 502: approx. 0.6 kg/m² and per mm of layer thickness
consumption of Sto-Zuschlag KS: approx. 1.2 kg/m² and per mm of layer thickness

Apply the mixed material with a squeegee (48 or 95 notching, Sto Tools Catalogue), evenly spread it, and de-air it using a spiked roller in a criss-cross pattern.

Scatter kiln-dried quartz sand StoQuarz 0.3 - 0.8 mm or StoQuarz 0.6 - 1.2 mm onto the fresh self-levelling mortar layer.

consumption: approx. 3.0 - 5.0 kg/m²

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Material consumption increases in the case of low material and on-site temperatures.

5) Coating

Apply the OS 8 and OS 11 surface protection systems in accordance with the information contained in the DIN V 18026 instructions for implementation.

Note:

The material consumption of the basic tested coating build-ups in accordance with the DafStb guideline (German Committee for Reinforced Concrete), October issue 2001, can be obtained from the information on execution (Appendix A) in the Certificate of Compliance.

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

StoCryl VV / StoDivers EV 100

Notes, recommendations, special information, miscellaneous

The Declaration(s) of Conformity can be obtained from the StoCretec Technical InfoCentre.
General application instructions can be found at www.stocretec.de (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix.

The abrasion resistance class specified in the CE marking 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; avoid direct sunlight.

Storage life

In the original container until ... (see packaging).

Identification

Product group

Primer

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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.

Practical guide for dealing with epoxy resins: "Sicherer Umgang mit Epoxidharzen in der Bauwirtschaft".

And

Test report on the protective action of chemical protective gloves against epoxy resin coatings: "Handschuhe für lösemittelfreie Epoxidharz-Systeme"

and "Schutzhandschuhe: Richtig anwenden"

www.bgbau.de/gisbau/fachthemen/epoxi

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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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