

Technical Data Sheet

StoPox GH 500

EP primer, tested and approved surface protection systems for traffic structures



Characteristics

Area of application

- interior
- exposed to the weather
- on floors
- as a primer
- as a self-levelling filler
- 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 cementitious substrates
- 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	500 - 700 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1,1 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

- 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.

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Dry substrate:

- Depends on the compressive strength class
- Dry in accordance with the definition in EN 1504-10

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**

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: 80 %

Time for application

at +23 °C: approx. 20 minutes

Mixing ratio

component A : component B
A : B
100.0 : 46.0 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.

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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 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.

Coating build-up

A: surface protection system OS 8

- 1) Prepare the substrate.
- 2) Apply the priming coat and self-levelling filler: StoPox GH 500
- 3) Scatter: StoQuarz 0.3-0.8 mm
- 4) Sealing: StoPox DV 502

B: StoCretec OS 11b.20 surface protection system

- 1) Prepare the substrate.
- 2) Priming: StoPox GH 500
- 3) Scatter: StoQuarz 0.3-0.8 mm
- 4) Apply an elastic floating layer and a wearing course: StoPur EZ 500
- 5) Scatter: StoQuarz 0.3-0.8 mm
- 6) Sealing: StoPox DV 502

Application

A: surface protection system OS 8

Notes:

- coating build-up, layer thickness: 2.5 mm

- 1) Prepare the substrate.

- 2) Apply the priming coat and self-levelling filler:

- StoPox GH 500, filled with StoQuarz 0.1-0.5 mm
- mixing ratio: 1.0 parts by weight of StoPox GH 500, 1.0 parts by weight of StoQuarz 0.1-0.5 mm
- consumption of StoPox GH 500: approx. 0.8 kg/m²
- consumption of StoQuarz 0.1-0.5 mm: approx. 0.8 kg/m²

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3) Scatter:

- StoQuarz 0.3-0.8 mm
- Scatter the surface full-faced in excess.
- consumption: approx. 4-5 kg/m²

4) Sealing:

- StoPox DV 502
- 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. 0.6-0.8 kg/m²
- Note: Avoid the formation of puddles.

B: surface protection system OS 11b.20

Notes:

- Material consumption increases at low material and on-site temperatures.

1) Prepare the substrate.

2) Priming:

- StoPox GH 500
- Flood apply the product without pores. Tools: rubber squeegee
- Rework the product with a roller and spread evenly. Tools: short-pile roller sleeve
- consumption: approx. 0.3-0.4 kg/m², depending on the roughness of the substrate
- Note: Avoid the formation of puddles.

3) Scatter:

- StoQuarz 0.3-0.8 mm
- Do not scatter an excess of the fresh prime coating.
- consumption: approx. 0.3-0.8 kg/m²

4) Apply an elastic floating layer and a wearing course:

- StoPur EZ 500, filled with StoQuarz 0.1-0.5 mm
- Waiting time: Apply the elastic floating layer and wearing course after 12-24 hours, and after removing the unbound quartz sand.
- mixing ratio for the self-levelling mortar: 1.0 parts by weight of StoPur EZ 500, 0.3 parts by weight of StoQuarz 0.1-0.5 mm
- Apply the self-levelling mortar in the required layer thickness.
- consumption of StoPur EZ 500: approx. 2.3 kg/m²
- consumption of StoQuarz 0.1-0.5 mm: approx. 0.75 kg/m²
- Note: The extender and filling degree can be adjusted for inclinations > 2 % or due to climate conditions.

5) Scatter:

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- 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. 4-6 kg/m²
- consumption of DUROP or granite chippings: approx. 5-8 kg/m²

6) Sealing:

- StoPox DV 502
- 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/m², depending on the scattering

Drying, curing, ready for next coat at +23 °C: approx. 12-24 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
04815/015	StoPox GH 500 Set	25 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

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Identification

Product group Primer

GISCODE RE90
(formerly RE 30)

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/>

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

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Special notes

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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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