

Technical Data Sheet

StoPox GH 500 S

EP primer, multi-storey car park, accelerated curing



Characteristics

- Area of application**
- interior
 - exposed to the weather
 - on floors
 - as a primer
 - on dry, cementitious substrates, e.g. concrete, screed

- 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
Viscosity (at 23 °C)	EN ISO 3219	500 - 700 mPa.s	mixture
Density (mixture 23 °C)	EN ISO 2811	1.1 g/cm ³	
Bond strength on concrete	DIN EN ISO 4624	> 2.5 N/mm ²	

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.

Technical Data Sheet

StoPox GH 500 S

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 +5 °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: +5 °C
 Maximum temperature: +25 °C

Application temperature:
 minimum temperature: +5 °C
 Maximum temperature: +25 °C

Relative humidity:
 maximum: 80 %

Time for application

At +20 °C: approx. 12 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.

Technical Data Sheet

StoPox GH 500 S

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 bottom and the rim areas 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

primer under non-water-based StoPox coatings

- 1) Prepare the substrate.
- 2) Priming: StoPox GH 500 S
- 3) Scatter: StoQuarz 0.3-0.8 mm
- 4) Coating: e. g. StoPox BB OS

Application

primer under non-water-based StoPox coatings

- 1) Prepare the substrate.
- 2) Priming:
 - StoPox GH 500 S
 - Flood apply the product without pores. Tools: rubber squeegee
 - Rework the product and spread evenly with a roller. 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) Coating:
 - e. g. StoPox BB OS

Technical Data Sheet

StoPox GH 500 S

Drying, curing, ready for next coat Reworking time:
at +20 °C: approx. 3-18 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
04815/009	StoPox GH 500 S Set	10 kg set
04815/006	StoPox GH 500 S 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. This information is included in the batch number on the container. Explanation of batch nos.:
digit 1 = last digit of the year, digits 2 + 3 = calendar week, example: 1450013223 - storage life ends at week 45 in 2022
See product packaging

Identification

Product group Primer

Safety This product is subject to compulsory labelling in accordance with the current EU regulation.
Observe the Safety Data Sheet!

Technical Data Sheet

StoPox GH 500 S

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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