Technical Data Sheet
StoPox GH 530

EP primer, pre-filled, for tested surface protection systems, resistant to rising damp

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 StoCretec OS 8 and OS 11 surface protection systems
- scattered under EP coatings and PUR coatings

Properties

- pre-filled with special extenders
- very good wetting of the substrate
- very good de-airing properties
- tested for compatibility between the coating and water-saturated, surface-dry concrete in accordance with DIN EN 13578:2003
- tested for bond performance when exposed to rising damp in accordance with the DAfStb (German) Repair Guideline

Appearance

- opaque

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)	ISO 3219	600 - 900 mPa.s	
Shore hardness type D	DIN 53505-D/EN ISO 868	65 - 71	
Density (mixture 23 °C)	EN ISO 2811	1.4 - 1.48 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

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Requirements	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: - 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: 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. 40 minutes at +23 °C: approx. 20 minutes at +30 °C: approx. 10 minutes
Mixing ratio	component A : component B A : B

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	100 : 16.6 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 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: as primer, depending on the substrate Approx. consumption: 0.35 - 0.55 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	A: surface protection system OS 8 1) Prepare the substrate. 2) Apply the priming coat and self-levelling filler: StoPox GH 530 3) Scatter: StoQuarz 0.3-0.8 mm 4) Sealing: StoPox DV 100 --- B1: OS 11a and OS 11b surface protection systems 1) Prepare the substrate.

2) Priming: StoPox GH 530
3) Scatter: StoQuarz 0.3-0.8 mm

B2: surface protection system OS 11b
4) Apply an elastic floating layer and a wearing course: StoPox TEP MultiTop
5) Scatter: StoQuarz 0.3-0.8 mm
6) Sealing: StoPox DV 100

or

B3: surface protection system OS 11a
4) Apply a crack-bridging, elastic floating layer, main effective surface protection layer: StoPox TEP MultiTop
5) Applying a wearing course: StoPox TEP MultiTop
6) Scatter: StoQuarz 0.3-0.8 mm
7) Sealing:

C: industrial floor coating
1) Prepare the substrate.
2) Priming: StoPox GH 530
3) Scatter: StoQuarz 0.3-0.8 mm
4) Optional levelling: StoPox GH 530

5) Scatter: StoQuarz 0.1–0.5 mm or StoQuarz 0.3–0.8 mm
6) Coating: e.g. StoPox BB OS or StoPox KU 601

Application

A: surface protection system OS 8

Note: - Application of the OS 8 surface protection systems: see the DIN V 18026 implementation instructions.
- coating build-up, layer thickness: 2.5 mm

1) Prepare the substrate.

2) Apply the priming coat and self-levelling filler:
- StoPox GH 530
- filled with StoQuarz 0.1–0.5 mm
- filling degree: 1 : 0.7 according to parts by weight
- consumption of StoPox GH 530: approx. 1.2 kg/m²
- consumption of StoQuarz 0.1-0.5 mm: approx. 0.8 kg/m²

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

B1: OS 11a and OS 11b surface protection systems

Notes:
- Application of the OS 11 surface protection systems: see the DIN V 18026 implementation instructions.

1) Prepare the substrate.

2) Priming:
- StoPox GH 530
- Flood apply the product without pores. Tools: rubber squeegee
- Rework the product and spread evenly in a criss-cross pattern with a roller. Tools: short-pile roller sleeve
- consumption: approx. 0.4 kg/m²

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

B2: OS 11b surface protection system
Action steps 1-3:
- See B1: OS 11a and OS 11b surface protection systems

1) Prepare the substrate.
2) priming coat: StoPox GH 530
3) Scatter: StoQuarz 0.3-0.8 mm

4) Apply an elastic floating layer and a wearing course:
- StoPox TEP MultiTop, filled with StoQuarz 0.1–0.5 mm or StoQuarz 0.3–0.8 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 StoPox TEP MultiTop, 0.4 parts by weight of StoQuarz 0.1-0.5 mm, or StoQuarz 0.3-0.8 mm
- Apply the self-levelling mortar in the required layer thickness.
- consumption of StoPox TEP MultiTop: approx. 2.5 kg/m²

- consumption of StoQuarz 0.1-0.5 mm: approx. 1.0 kg/m²
- Consumption of StoQuarz 0.3 - 0.8 mm: approx. 1.0 kg/m²
- Note: The extender and filling degree can be adjusted for inclinations > 2 % or due to climate conditions.

5) Scatter:
- 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 100
- 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

Apply the StoCretec OS 11a.5 and StoCretec OS 11b.5-1 surface protection systems:
- consumption and details: see the instructions for implementation, Appendix A of the DIN V 18026 certificate of compliance

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B3: OS 11a surface protection system

Action steps 1-3:
- See B1: OS 11a and OS 11b surface protection systems
1) Prepare the substrate.
2) priming coat: StoPox GH 530
3) Scatter: StoQuarz 0.3-0.8 mm

4) Apply a crack-bridging, elastic floating layer, main effective surface protection layer:
- StoPox TEP MultiTop
- Apply the product unfilled without quartz sand. layer thickness: at least 1.5 mm, tool: squeegee with triangular notching
- Rework the product in a criss-cross pattern for ventilation. Tools: spiked roller
- consumption: approx. 2.3 kg/m²
- Note: Use spiked soles with blunt nails during scattering or de-airing to prevent damage to the membrane.

5) Applying a wearing course:

- StoPox TEP MultiTop, filled with StoQuarz 0.1–0.5 mm
- Waiting time: Apply the wearing course after 12-24 hours.
- mixing ratio for the self-levelling mortar: 1.0 parts by weight of StoPox TEP MultiTop, 0.2 parts by weight of StoQuarz 0.1-0.5 mm
- Apply the self-levelling mortar in the required layer thickness.
- consumption of StoPox TEP MultiTop: approx. 1.9 kg/m²
- consumption of StoQuarz 0.1-0.5 mm: approx. 0.4 kg/m²

6) Scatter:
- StoQuarz 0.6-1.2 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 0.6-1.2 mm: approx. 4-6 kg/m²
- consumption of DUROP or granite chippings: approx. 5-8 kg/m²

7) Sealing:
- StoPox DV 100
- 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

Apply the StoCretec OS 11a.5 and StoCretec OS 11b.5-1 surface protection systems:
- consumption and details: see the instructions for implementation, Appendix A of the DIN V 18026 certificate of compliance

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C: industrial floor coating

1) Prepare the substrate

2) Priming:
- StoPox GH 530
- Flood apply the product without pores. Tools: rubber squeegee
- Rework the product and spread evenly with a roller.
- consumption: 0.3-0.5 kg/m²
- Note: Avoid the formation of puddles.

3) Scatter:
- StoQuarz 0.3-0.8 mm
- Scatter the fresh prime coating grain by grain and without excess.
- consumption: approx. 0.5-1.0 kg/m²

4) Optional levelling:
- StoPox GH 530

5) Scatter:
- StoQuarz 0.1–0.5 mm or StoQuarz 0.3–0.8 mm
- Scatter the fresh prime coating grain by grain and without excess.
- consumption of StoQuarz 0.1-0.5 mm: approx. 0.5-1.0 kg/m²
- consumption of StoQuarz 0.3-0.8 mm: approx. 0.5-1.0 kg/m²

6) Coating:
- e.g. StoPox BB OS or StoPox KU 601

Drying, curing, ready for next coat	Reworking time: At +10°C: approx. 18 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
08238/001	StoPox GH 530 Set	30 kg set
08238/002	StoPox GH 530 Set	1050 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

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

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.

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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.

Füllgrade für Egalisierspachtelung
(abgestreute rutschhemmende Oberflächen)

Rautiefe in mm	MV in Gew.T.	StoPox GH 530	z.B. 1:1 Mischung aus StoQuarzsand 0,1-0,2 mm und StoQuarzsand 0,1-0,5 mm	Verbrauch Mischung in kg/m²/mm	Anteil Bindemittel in kg/m²/mm
bis 0,5	bis 1 :0,3	30 kg	10 kg	ca. 0,45	ca. 0,35
0,5 – 1,0	bis 1:0,67	30 kg	20 kg	ca. 1,8	ca. 1,0
0,5 – 2,0	bis 1:1	30 kg	30 kg	ca. 2,0	ca. 1,0

gültig für Temperaturbereiche 20-25 °C
(Material/Boden/Luft)

Bei niedrigen Temperaturen sind die Zugabemengen des Quarzsandes zu reduzieren und den örtlichen Gegebenheiten anzupassen.
Andere Füllgrade und Quarzsandkörnungen sind realisierbar, müssen jedoch den örtlichen Gegebenheiten angepasst werden.

filling degrees for levelling coats

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