Technical Data Sheet

StoPox GH 205

EP primer, tested, resistant to rising damp

Characteristics

Area of application	• interior and exposed to the weather • on floors • as a priming coat for mineral substrates • levelling coat for roughness depths > 0.5 mm • capillary and pore waterproofing of cementitious substrates
Properties	• very good adhesive bond on mineral substrates • tested for bond strength and bubble formation when subjected to rising damp • contains de-airing additives • can be filled with quartz sand on-site • low in VOC emissions
Appearance	• transparent
Information/notes	• product is in accordance with EN 1504-2 • product is in accordance with EN 13813 • component of StoCretec flooring on the basis of visually high-quality PUR resins, approved by the Committee for Health-related Evaluation of Building Products (AgBB). • component of various flooring systems approved in accordance with the building inspection requirements of the AgBB (Committee for Health-related Evaluation of Building Products)

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength (28 days)		> 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	Requirements on the substrate: The substrate must be dry, load-bearing, and free from native and foreign release agents. Remove less strong layers and laitance. Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. The moisture content may not exceed 4 CM per cent for concrete qualities up to C30/37 and max. 3 CM per cent for C35/45 concrete, measured with a calcium carbide meter. Substrate temperature higher than +10 °C and 3 K above dew point. Average bond strength: 1.5 N/mm² Bond strength, lowest single 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.
Application	
Application temperature	Lowest application temperature: +10 °C max. approved relative humidity: 75 % Highest application temperature: +30 °C max. approved relative humidity: 85 %
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 = 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 at least +15 °C when

mixing.

Consumption

Type of application	Approx. consumption	
as primer, depending on the substrate	0.2 - 0.5	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

Standard primer under non-water-based StoPox coatings (interior and exterior).
1) Substrate preparation
2) Prime coating of StoPox GH 205 and scattering
3) Scratch coat of StoPox GH 205 (optional for roughness depths > 0.5 mm)
4) Coating of e.g. StoPox BB OS, StoPox KU 601, StoPur IB 500

Primer in the case of rising damp:
The use of StoPox GH 205 as a barrier against rising damp requires thorough knowledge of the quality of the substrate and type and scope of the moisture penetration. A StoCretec system advisor must be consulted.

Application

Standard primer under non-water-based StoPox coatings (interior and exterior).

1) Substrate preparation

2) Prime coating
Apply StoPox GH 205 with a rubber squeegee, flooding until the substrate is totally free of pores, and then evenly spread the material by rolling/brushing. Avoid the formation of puddles.

Consumption: approx. 0.2 - 0.5 kg/m², depending on the roughness of the substrate.

If not reworking the fresh prime coating within 48 hours, scatter StoQuarz 0.1 - 0.5 mm or StoQuarz 0.3 - 0.8 mm kiln-dried quartz sand over it (not excessively, but grain by grain).

consumption: approx. 0.5 - 1.0 kg/m²

3) Scratch coat
Prime with StoPox GH 205

Consumption approx. 0.3 - 0.5 kg/m² and application cycle

Apply a scratch coat, consisting of 1 part by weight StoPox GH 205 and up to 2 parts by weight StoQuarz RF (add StoDivers ST thixotropic additive if necessary)

on to the prepared and primed substrate.

Apply using a smoothing trowel, a squeegee with triangular notching, and a spiked roller.

Consumption of StoPox GH 205: approx. 0.6 - 0.7 kg/m² and mm layer thickness

Consumption of StoQuarz RF: approx. 1.2 - 1.4 kg/m² and mm layer thickness

4) Coating
Apply the non-water-based StoPox/StoPur coating in accordance with the relevant Technical Data Sheet.

As an anti-foaming binding agent for producing self-levelling mortars and EP screeds.

layer thickness < 1 mm; filling degree 1 : 1 according to parts by weight (material temperature at least +15 °C); consumption of the total mixture: approx. 1.50 kg/m² and mm layer thickness.
Consumption of StoPox GH 205: approx. 0.7 kg/m² and mm layer thickness
Consumption of StoQuarz RF approx. 0.7 kg/m² and mm layer thickness

If necessary, scatter kiln-dried quartz sand StoQuarz 0.3 - 0.8 mm or StoQuarz 0.6 - 1.2 mm on to the fresh self-levelling mortar.

consumption: approx. 3.0 - 5.0 kg/m²

layer thickness 1 - 2 mm; Filling degree 1 : 1.5 parts by weight., consumption of the total mixture: approx. 1.7 kg/m² and per mm of layer thickness.
Consumption of StoPox GH 205: approx. 0.7 kg/m² and mm layer thickness
Consumption of StoQuarz RF approx. 1.0 kg/m² and mm layer thickness

If necessary, scatter kiln-dried quartz sand StoQuarz 0.3 - 0.8 mm or StoQuarz 0.6 - 1.2 mm on to the fresh self-levelling mortar.

consumption: approx. 3.0 - 5.0 kg/m²

layer thickness 2 - 3 mm; filling degree 1 : 2.5 according to parts by weight (material temperature at least +15 °C); consumption of the total mixture: approx. 1.8 kg/m² and mm layer thickness.
Consumption of StoPox GH 205: approx. 0.5 kg/m² and mm layer thickness
Consumption of Sto Zuschlag KS: approx. 1.3 kg/m² and mm layer thickness.

If required, scatter kiln-dried quartz sand StoQuarz 0.3 - 0.8 mm or StoQuarz 0.6 - 1.2 mm on to the fresh self-levelling mortar.

Consumption: approx. 3.0 - 5.0 kg/m²

	layer thickness > 3 mm; filling degree 1 : 3 according to parts by weight (material temperature at least +15 °C); consumption of the total mixture: approx. 1.92 kg/m² and mm layer thickness. Consumption of StoPox GH 205: approx. 0.5 kg/m² and mm layer thickness Consumption of StoQuarz 0.01 mm: approx. 0.5 kg/m² and mm layer thickness Consumption of StoQuarz 0.1 - 0.5 mm: approx. 0.5 kg/m² and mm layer thickness Consumption of StoQuarz 0.3 - 0.8 mm: approx. 0.4 kg/m² and mm layer thickness. If necessary, scatter fire-dried quartz sand StoQuarz 0.3 - 0.8 mm or StoQuarz 0.6 - 1.2 mm into the fresh self-levelling mortar. Consumption: approx. 3.0 - 5.0 kg/m² Apply the self-levelling mortar using a squeegee/notched trowel or notched rubber blade (48 or 95 notching, or rubber blade 6 mm, Sto tool catalogue) and spread it evenly. Then level and de-air the material using a spiked roller in a criss-cross pattern. layer thickness 6 - 15 mm; filling degree 1 : 8 according to parts by weight (material temperature at least +15 °C); consumption of the total mixture: approx. 2.0 kg/m² and mm layer thickness. Prime beforehand and work wet-on-wet! Consumption of StoPox GH 205: approx. 0.22 kg/m² and mm layer thickness Consumption of StoQuarz AS: approx. 1.78 kg/m² and mm layer thickness At low material and object temperatures, material consumption per m² increases due to the rise in viscosity.
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 performance can be obtained from the StoCretec Technisches InfoCenter General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual. The abrasion resistance class specified in the CE marking refers to the smooth, not scattered covering.

Delivery

Packaging	pail

	Article number	Name	Container
	04807/019	StoPox GH 205 Set	551 kg set
	04807/018	StoPox GH 205 Combi	10 kg combi
	04807/017	StoPox GH 205 Set	25 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

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:

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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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