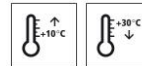


Technical Data Sheet

StoPox GH 205 S

EP primer, resistant to rising damp, accelerated curing



Characteristics

- Area of application**
- interior and exposed to the weather
 - on floors
 - levelling coat for roughness depths > 0.5 mm
 - capillary and pore waterproofing of cementitious substrates
 - accelerated winter version

- 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

- 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	450 - 650 mPa.s	mixture
Shore hardness type D	DIN 53505-D/EN ISO 868	77 - 83	
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 weak layers and laitance.

Technical Data Sheet

StoPox GH 205 S

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. 50 minutes At +23°C: approx. 25 minutes At +30 °C: approx. 15 minutes
-----------------------------	--

Mixing ratio	component A : component B = 100 : 33 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 at least 3 minutes. After mixing, transfer into a clean container and stir again thoroughly. 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 - 0,5	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			

Technical Data Sheet

StoPox GH 205 S

specific project.

Coating build-up

As a standard primer under non-water-based StoPox coatings (interior and exterior):

- 1) Substrate preparation
- 2) Prime coating of StoPox GH 205 S/ sanding
- 3) Stipple filling of Pox GH 205 S (optional for roughness depths > 0.5 mm)
- 4) Coating build-up with e.g. StoPox BB OS, StoPox KU 601, StoPur IB 500

Primer in the case of rising damp:

The use of StoPox GH 205 S as a barrier against rising moisture 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

As a standard primer under non-water-based StoPox coatings (interior and exterior):

- 1) Substrate preparation

- 2) Prime coating

Apply StoPox GH 205 S with a rubber squeegee, flooding until the substrate is totally free of pores, and evenly spread the material by subsequent 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) Finishing coat

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 parts by weight (material temperature at least +15 °C); consumption of the total mixture: approx. 1.50 kg/m² and mm layer thickness.

Technical Data Sheet

StoPox GH 205 S

Consumption of StoPox GH 205: approx. 0.7 kg/m² and mm of 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 approx. 1 : 1.5 parts by weight, consumption of the total mixture: approx. 1.7 kg/m² and mm layer thickness.
 Consumption of StoPox GH 205 S: approx. 0.7 kg/m² and mm of layer thickness
 Consumption of StoQuarz RF approx. 0.8 - 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 of 2 - 3 mm; filling degree 1 : 2.5 parts by weight (material temperature min. +15 °C); consumption of the total mixture: approx. 1.8 kg/m² and mm of layer thickness.
 Consumption of StoPox GH 205 S: approx. 0.5 kg/m² and mm of layer thickness
 Consumption of StoZuschlag KS: approx. 1.3 kg/m² per mm of 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 > 3 mm; filling degree 1 : 3 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 S: approx. 0.5 kg/m² and mm of layer thickness
 Consumption of StoQuarz RF approx. 1.0 kg/m² and mm layer thickness
 Consumption of StoQuarz 0.3 - 0.8 mm: approx. 0.4 kg/m² and mm of 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

Apply and evenly spread the self-levelling mortar with a squeegee/notched trowel or notched rubber blade (notching of 48 or 95, or rubber blade 6 mm, Sto Tools Catalogue). Then level and de-air the coat with a spiked roller in a criss-cross pattern.

Technical Data Sheet

StoPox GH 205 S

Layer thickness 6 - 15 mm; filling degree 1 : 8 parts by weight (material temperature min. +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 S: approx. 0.22 kg/m² and mm of layer thickness

Consumption of StoQuarz AS: approx. 1.78 kg/m² and mm of 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. 24 h
At +23 °C: approx. 8 h
At +30 °C: approx. 5 h

Cleaning the tools

StoDivers EV 100, StoCryl VV

Notes, recommendations, special information, miscellaneous

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

Article number	Name	Container
04807/016	StoPox GH 205 S Set	28 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

GISCODE

RE90
(formerly RE 30)

Safety

This product is subject to compulsory labelling in accordance with the current EU

Technical Data Sheet

StoPox GH 205 S

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.

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.

StoCretec GmbH

Technical Data Sheet

StoPox GH 205 S

Gutenbergstr. 6
D-65830 Kriftel

Tel.: +49 6192 401-104
stocretec@sto.com
www.stocretec.de