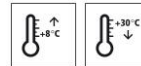


# Technical Data Sheet

## StoPox GH 205

Epoxy resin primer, tested, resistant to rising damp



### Characteristics

- Area of application**
- interior areas and areas exposed to weathering
  - on floor areas
  - as primer 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 on-site with quartz sand
- low 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/cm <sup>3</sup>	

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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.

Dry in accordance with the definition of the DAfStb (German) Repair Guideline 2001-10, but depending on the compressive strength class. Residual moisture may amount to max. 4 wt% for concrete in strength classes up to C30/37 and max. 3 wt% for C35/45 concrete, measured with a calcium carbide meter.

Substrate temperature higher than +8 °C and 3 K above dew point.  
Average bond strength 1.5 N/mm<sup>2</sup>  
Lowest single bond strength value 1.0 N/mm<sup>2</sup>

##### 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: +8 °C  
Maximum approved relative humidity 75 %

Highest application temperature: +30 °C  
Maximum approved relative humidity 85 %

##### Time for application

At +8°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

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mixing.

Consumption	Type of application	Approx. consumption
	as primer, depending on the substrate	0.2 - 0.5 kg/m <sup>2</sup>

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/m<sup>2</sup>, 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/m<sup>2</sup>

3) Scratch coat

Prime with StoPox GH 205

Consumption approx. 0.3 - 0.5 kg/m<sup>2</sup> 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)

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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/m<sup>2</sup> and mm layer thickness

Consumption of StoQuarz RF: approx. 1.2 - 1.4 kg/m<sup>2</sup> 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 parts by weight (material temperature at least +15 °C); consumption of the total mixture: approx. 1.50 kg/m<sup>2</sup> and mm layer thickness.

Consumption of StoPox GH 205: approx. 0.7 kg/m<sup>2</sup> and mm layer thickness

Consumption of StoQuarz RF approx. 0.7 kg/m<sup>2</sup> 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/m<sup>2</sup>

Layer thickness 1 - 2 mm; filling degree approx. 1 : 1.5 parts by weight, consumption of the total mixture: approx. 1.7 kg/m<sup>2</sup> and mm layer thickness.

Consumption of StoPox GH 205: approx. 0.7 kg/m<sup>2</sup> and mm layer thickness

Consumption of StoQuarz RF approx. 1.0 kg/m<sup>2</sup> 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/m<sup>2</sup>

Layer thickness 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/m<sup>2</sup> and mm layer thickness.

Consumption of StoPox GH 205: approx. 0.5 kg/m<sup>2</sup> and mm layer thickness

Consumption of Sto Zuschlag KS: approx. 1.3 kg/m<sup>2</sup> 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/m<sup>2</sup>

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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/m<sup>2</sup> and mm layer thickness.

Consumption of StoPox GH 205: approx. 0.5 kg/m<sup>2</sup> and mm layer thickness

Consumption of StoQuarz 0.01 mm: approx. 0.5 kg/m<sup>2</sup> and mm layer thickness

Consumption of StoQuarz 0.1 - 0.5 mm: approx. 0.5 kg/m<sup>2</sup> and mm layer thickness

Consumption of StoQuarz 0.3 - 0.8 mm: approx. 0.4 kg/m<sup>2</sup> 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/m<sup>2</sup>

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 parts by weight (material temperature min. +15 °C); consumption of the total mixture: approx. 2.0 kg/m<sup>2</sup> and mm layer thickness.

Prime beforehand and work wet-on-wet!

Consumption of StoPox GH 205: approx. 0.22 kg/m<sup>2</sup> and mm layer thickness

Consumption of StoQuarz AS: approx. 1.78 kg/m<sup>2</sup> and mm layer thickness

At low material and object temperatures, material consumption per m<sup>2</sup> increases due to the rise in viscosity.

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#### 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

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#### Cleaning the tools

StoCryl VV / StoDivers EV 100

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#### Notes, recommendations, special information, miscellaneous

The Declaration(s) of Conformity can be obtained from the StoCretec Technisches InfoCenter  
For general application instructions, see [www.stocretec.de](http://www.stocretec.de) (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix.

The abrasion resistance class specified in the CE marking refers to the smooth, not scattered covering.

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### StoPox GH 205

#### 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.

Practical guide for dealing with epoxy resins: "Sicherer Umgang mit Epoxidharzen in der Bauwirtschaft".

And

Test report on the protective action of chemical protective gloves against epoxy resin coatings: "Handschuhe für lösemittelfreie Epoxidharz-Systeme" and "Schutzhandschuhe: Richtig anwenden"

[www.bgbau.de/gisbau/fachthemen/epoxi](http://www.bgbau.de/gisbau/fachthemen/epoxi)

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Tel. (+49) 231 9071-2071, Fax. (+49) 231 9071-2070

[www.BAuA.de](http://www.BAuA.de)

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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.

StoCretec GmbH  
Gutenbergstr. 6  
D-65830 Kriftel

Tel.: +49 6192 401-104  
Fax: +49 6192 401-105  
stocretec@sto.com  
www.stocretec.de