

Technical data sheet

StoPox CH 700

EP binder for synthetic resin screeds, suitable for power trowel smoothing



Characteristics

Areas of application

- interior
- onto floor slabs
- as epoxy resin binder with a low tendency to yellowing and long processing time for producing synthetic resin screeds suitable for power troweling

Properties

- long working time
- low viscosity
- highly fillable on site
- contains deairing additives

Appearance

- transparent
- gloss
- high colour gloss

Information/notes

- product is in accordance with EN 1504-2
- product is in accordance with EN 13813

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Criterion	Standard / test regulation	Value/ Unit	Notes
Tensile strength (28 days)	EN 1542	> 2.0 MPa	
Viscosity (at 23 °C)	EN ISO 3219	720 - 1,080 mPa.s	Mixture
Density (mixture 23 °C)	EN ISO 2811	1.05 - 1.11 g/cm ³	

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that 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 characteristic or dissimilar separating substances.
Less solid layers and slurry accumulations must be removed.

Dry in accordance with the definition of the restoration guideline 2001-10, depending on the concrete quality, however. Residual moisture may amount to max. 4 weight per cent in case of concrete qualities of max. C30/37 and max. 3 weight per cent in case of C35/45 concrete, measured with the CM device.

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Substrate temperature greater than +12 °C and 3 K above dew point.
Average tensile strength 1.5 N/mm²
Smallest individual tensile strength value 1.0 N/mm²

Preparations Prepare the substrate employing a suitable mechanical process such as shot-blasting, milling and subsequent shot-blasting, or blasting with solid abrasives.

Application

Application temperature Lowest application temperature: +12 °C
Highest temperature of substrate/air: +30 °C
Max. permissible relative humidity 85%

Processing time At +12°C: approx. 75 minutes
At +23°C: approx. 45 minutes
At +30°C: approx. 30 minutes

Mixing ratio component A : component B = 100.0 : 49.3 parts by weight

Material preparation Component A and Component B are supplied in the correct mixing ratio and mixed in accordance with the following instructions. Stir component A, then add all of component B.
Mix thoroughly with a slow-running stirrer (max. 300 rpm) until a homogeneous, smooth compound develops. It is also vital to stir thoroughly at the sides and the bottom to ensure that the hardener spreads evenly. Mix for min. 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 min. +15 °C when mixing.

Consumption	Type of application	Approx. consumption	
	depending on the aggregate and layer thickness	1.15	kg/m ²

Material consumption depends on, among other factors, the application, substrate and consistency. The stated consumption values are only to be used as a guide. If required, precise consumption values should be determined on the basis of the specific project.

Coating procedure Use in interior areas (e.g. sales and exhibition rooms)

- 1) Surface preparation
2. Prime with StoPox GH 205.
3. Stipple filling for roughness depths > 0.5 mm
4. Producing and applying the epoxy resin/quartz sand mixture

Application Use in interior areas (e.g. sales and exhibition rooms)

- 1) Surface preparation
- 2) Priming coat

Apply the mixed StoPox GH 205 using a rubber squeegee until the substrate is totally free of pores, and evenly spread by subsequent rolling/brushing.

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Avoid the formation of puddles.
Then scatter with StoQuarz 0.6 - 1.2 mm.

Consumption StoPox GH 205: approx. 0.3 - 0.5 kg/m², depending on the roughness of the substrate
Do not scatter completely.

3. Levelling filler coating StoPox GH 205 (for roughness depths > 1 mm).
Levelling filler coating if required, depending on the evenness of the substrate, consisting of 1 part by weight StoPox GH 205 and 1 part by weight StoQuarz 0.1 - 0.5 mm and then scatter with Sto Quartz 0.6 - 1.2 mm (no complete full scattering).

Consumption of StoPox GH 205: approx. 0.6 kg/m²
Consumption of StoQuarz 0.1 - 0.5 mm: at least 0.6 kg/m²
Consumption of StoQuarz 0.6 - 1.2 mm: at least 2.0 kg/m²

First, the self-levelling mortar is applied and evenly spread using a squeegee/toothed trowel or a toothed rubber blade (toothing 48 or 95, or rubber blade 6 mm, Sto-Tool Catalogue), then it is equalised and ventilated in a criss-cross pattern using a spiked roller.

4. Colour quartz coating:
Producing and applying a colour quartz coating, consisting of 1 part by weight of StoPox CH 700 and approx. 8-10 parts by weight of a suitable colour quartz mixture (e.g. Dorfner; AKW).

Apply using a screed box and a power trowel.

Application requires a high level of trade knowledge.

Note:

Water loading may only occur at the earliest after 7 days (at +21 °C), as otherwise it can lead to blushing of StoQuarz CH 700.

Low temperatures delay curing.

Despite comparably high yellowing stability, a change in colour shade/yellowing must be expected.

Surface temperatures > +50 °C can also lead to dark discoloration.

This must also be taken into account, particularly in daylight, when selecting the colour quartz colour shade or the coating below.

Discolouring can occur depending on exposure to chemicals which do not, however, impair the features of the coating.

Please refer to our current Cleaning and Maintenance brochure for information about cleaning and maintaining the top coat.

Drying, curing, ready for next Reworking time:

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coat At +12°C: approx. 48 h
At +23°C: approx. 24 h
At +30°C: approx. 16 h

Cleaning the tools Clean with StoCryl VV.

Indications, recommendations, special information, miscellaneous The statement(s) of conformity can be obtained from the StoCretec Technical Information Centre
General application instructions can be found at www.stocretec.de (Products) and in the appendix of the current manual "Technical Data Sheets"

The wear class specified in the CE marking refers to the smooth, non sprinkled covering.

Delivery

Packaging pail and tin Barrel

Article number	Designation	Container
02287/010	StoPox CH 700 Set	25 kg set
02287/009	StoPox CH 700 Combi	10 kg combi

Storage

Storage conditions Store in dry and frost-free conditions; avoid direct solar radiation.

Storage life In the original container until ... (see packaging).

Certificates/approvals

Identification

Product group Coating

Safety This product is subject to compulsory designation under EU law. You will receive an EU Health & Safety Data Sheet with your first order. 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" (Safely dealing with epoxy resins in the construction industry).
And
Test report on the protective action of chemical protective gloves against EP coatings: "Handschuhe für lösemittelfreie Epoxidharz-Systeme" (Gloves for solvent-free epoxy resin systems) and "Schutzhandschuhe: Richtig anwenden" (Protective gloves: Correct use)
www.gisbau.de/service/epoxi/Bericht.pdf

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Guidelines for the planning of building site facilities: "Wirtschaftliche and sichere

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Baustelleneinrichtung"

(Economic and safe building site facilities)

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Geschäftsstelle der Initiative Neue Qualität der Arbeit (INQA)

Friedrich-Henkel-Weg 1-25, 44149 DE-Dortmund

Tel. (+49) 231 9071-2171, fax. (+49) 231 9071-2170

www.inqa.de/ unter Themen/Bauwirtschaft/Wissen and www.inqa-bauen.de

Special notes

The information or data 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. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.

Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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