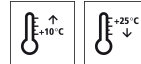


Technical data sheet

StoPox KU 411

EP sealer for textured coating, electrically conductive



Characteristics

Areas of application

- interior
- for cementitious substrates such as concrete or screed surfaces
- as coloured, textured sealing coat for industrial flooring

Properties

- electrically conductive (EN 1081, DIN EN 61340-4-1)
- adjusted to be shear-thinning
- free from additives which damage the lacquer
- ready-to-use

Appearance

- bumpy texture
- gloss

Information/notes

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

Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Tensile strength (28 days)	EN 1542	> 2.0 MPa	
Density (mixture 23 °C)	EN ISO 2811	1.38 - 1.46 g/cm ³	

Technical data sheet

StoPox KU 411

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

The substrate must be dry, load-bearing, and free from native and foreign substances that have a separating action.
Remove less solid layers and laitance.

Dry in accordance with the definition of the Restoration Guideline 2001-10, but depending on the concrete 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 greater than +10 °C and 3 K above dew point.
Average tensile bond strength 1.5 N/mm²
Tensile bond strength of the single smallest 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 Maximum approved relative humidity 75 %
Highest application temperature: +25 °C Maximum approved relative humidity 85 %

Processing time

At +10 °C: approx. 30 minutes
At +20 °C: approx. 20 minutes
At +25 °C: approx. 10 minutes

Mixing ratio

Component A : component B = 100.0 : 25.0 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 to ensure that the hardener spreads evenly. 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

Technical data sheet

StoPox KU 411

mixing.

Consumption	Type of application	Approx. consumption	
	as sealer	0.6 - 0.7	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 specific project.

Coating procedure	Textured coating, electrically conductive
	<ol style="list-style-type: none"> 1) Substrate preparation 2) Prime coating of StoPox GH 205 3) Levelling filler coating of StoPox GH 205 (optional) 4) Self-adhesive conductive strips StoDivers LB 100 5) Conductive layer of StoPox WL 110 (connection to ground) with StoDivers LS 6) Textured coating of StoPox KU 411

Application	Textured coating, electrically conductive.
	<ol style="list-style-type: none"> 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 forming puddles. Consumption: approx. 0.2 - 0.3 kg/m², depending on the roughness of the substrate. If necessary, scatter with StoQuarz 0.1 - 0.5 mm Consumption: approx. 0.5 - 1.0 kg/m² 3) Levelling filler coating for significant roughness depths(optional) StoPox GH 205, filled 1 : 1 to 1 : 3 parts by weight with Sto Zuschlag KS or with StoQuarz 0.1 - 0.5 mm and StoQuarz 0.01 mm (50 : 50 parts by weight). Consumption: StoPox GH 205 approx. 0.4 - 0.5 kg/m² and mm of layer thickness Consumption: Sto Zuschlag KS (StoQuarz) approx. 0.4 - 1.5 kg/m² and mm of layer thickness Consumption: approx. 1.8 kg/m² per mm of layer thickness (filled)

Technical data sheet

StoPox KU 411

4) Self-adhesive conductive strips

Affix the self-adhesive conductive strips to the prepared substrate. A connection to ground is required for every 100 m² of surface. Overlap the joints of the conductive strips by 5 cm.

Pull the free ends of the StoDivers LB 100 conductive strips up to the wall surface areas and connect them to the grounding system.
Alternatively, connect them to ground using the StoDivers LS conducting set.

An electrician must determine the number and location of the connections to ground. Only an electrician is permitted to ground the conductive strips/conducting set.

5) Conductive layer

Dilute StoPox WL 110 with up to 10 % water and apply with a short-pile roller (Sto-Glaze Roller Micro-Fibre, Sto-Tool Catalogue).

Consumption: approx. 0.15 - 0.2 kg/m²

Check the functionality of the applied conductive layer by measuring the resistance to ground before applying the following top coat.
The resistance to ground may not exceed 50 kilohms.

6) Textured coating

Apply StoPox KU 411 using an upright squeegee (Polyplan triangular notching 23) and then roll with a texturing roller (coarse) to create the bumpy texture.
Create sample surfaces in order to define the desired texture.

Consumption: approx. 0.6 - 0.7 kg/m², depending on the desired texture. Only one application cycle is permitted.

Note:

Fully cured (earliest contact with water): at +23 °C - after 7 days.

Changing temperatures during application and the curing period may influence the texture of the sealing coat.

Depending on exposure to chemicals, discolourations can occur. These do not, however, impair the technical function of the coating.
Any yellowing which occurs under UV stress does not impair the technical properties.

Tools (from the Sto tool range):

- Upright squeegee (Polyplan triangular notching 23)
- Texturing roller (coarse)

Cleaning the tools

StoCryl VV / StoDivers EV 100

Technical data sheet

StoPox KU 411

Indications, recommendations, special information, miscellaneous

The Declaration(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 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.

Delivery

Colour shade RAL colour fan, limited tintability in accordance with the StoColor System, limited colour choice, it should be noted that light colour shades have reduced hiding power

Packaging pail and tin

	Article number	Designation	Container
	03725/004	StoPox KU 411 Set tinted	30 kg set
	03725/003	StoPox KU 411 Combi tinted	15 kg combi

Storage

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

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

Certificates/approvals

Identification

Product group Sealer

Safety This product is subject to compulsory designation in accordance with the current EU directive.
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"

Technical data sheet

StoPox KU 411

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.gisbau.de/service/epoxi/Bericht.pdf

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

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www.inqa.de/ under 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.

Technical data sheet

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*Product images may differ from the actual product.