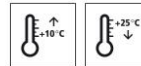


Technical Data Sheet

StoPox KU 411

EP textured sealing coat, electrically conductive



Characteristics

Area of application

- interior
- on dry, cementitious substrates, e.g. concrete, screed
- as a coloured, textured sealing coat for industrial flooring

Properties

- electrically conductive in accordance with EN 1081, EN 61340-4-1
- adjusted to be shear-thinning
- free from additives that can damage lacquers

Appearance

- dimpled texture
- gloss

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	
Density (mixture 23 °C)	EN ISO 2811	1,38 - 1,46 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

- General:
- Dry, load-bearing
 - Free from separating, native, or foreign substances
 - Remove weak layers.
 - Remove any accumulation of fine concrete particles on the surface.

- Dry substrate:
- Depends on the compressive strength class
 - Dry in accordance with the definition in EN 1504-10

Moisture content:

Technical Data Sheet

StoPox KU 411

- Measure the moisture content of the concrete substrate with a calcium carbide meter.
- Moisture content for concrete qualities up to C30/37: max. 4 per cent by weight
- Moisture content for concrete qualities up to C35/45: max. 3 per cent by weight

Substrate temperature: at least +10 °C, 3 K above the dew point

Bond strength, average: 1.5 N/mm²

Bond strength, lowest single value: 1.0 N/mm²

Preparations

1) Prepare all the above-mentioned substrates using a mechanical method, see "Substrate, requirements".

Example:

- Shot-blasting
- Milling followed by shot-blasting
- Abrasive blasting

Application

Application temperature

Application temperature:
minimum temperature: +10 °C
Maximum temperature: +25 °C

Relative humidity:
maximum 75 % at +10 °C
maximum 85 % at +25 °C

Time for application

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

Mixing ratio

component A : component B
A : B
100.0: 25.0 parts by weight

Material preparation

Notes:

- Component A and component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions.
- Observe the order of the "Preparing material" steps.
- The material temperature is between +15 °C and +25 °C.
- The temperature of all components is between +15 °C and +25 °C.

Mixing time:

- The length of the mixing time depends on the temperature of the material and the ambient temperature.
- Mix each container for the same length of time.

Technical Data Sheet

StoPox KU 411

Possible consequences if mixing times are too long or too short:
- Mixing the product too long will shorten the time for application.

Preparing the material:

- 1) Stir component A.
- 2) Add all of component B.
- 3) Mix the components until the hardener is well distributed, the mixture is homogeneous, and a streak-free mass is produced.
Paddle mixer: slow running mixer, max. 300 rpm
Mixing time: at least 3 minutes
- 4) Ensure that the mixing equipment covers the bottom and the rim areas of the mixing container. The hardener must be evenly distributed.
- 5) Transfer the mixture to a clean container. Mix the components again.

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 build-up	1) Prepare the substrate.
	2) Priming: StoPox GH 205
	3) Optionally, apply a levelling filler: StoPox GH 205
	4) Self-adhesive conductive strip: StoDivers LB 100
	5) Apply a conductive layer: StoPox WL 110 with Sto Divers LS, earthing terminal
	6) Apply textured coating: StoPox KU 411

Application	1) Prepare the substrate.
	2) Priming:
	- StoPox GH 205
	- Flood apply the product without pores. Tools: rubber squeegee
	- Rework the product with a roller and spread evenly. Tools: short-pile roller sleeve
	- Consumption: approx. 0.2–0.3 kg/m ² , depending on the roughness of the substrate
	Note:
	- Avoid the formation of puddles.
	3) Optionally, apply a levelling filler:
	- StoPox GH 205
	- filling the product: 1 : 1 to 1 : 3 parts by weight, StoPox GH 205: Sto-Aggregate KS or StoQuarz0.1-0.5 mm, StoQuarz 0.01 mm
	- consumption StoPox GH 205 per mm layer thickness: approx. 0.4-0.5 kg/m ²

Technical Data Sheet

StoPox KU 411

- consumption of Sto-Aggregate KS, StoQuarz per mm of layer thickness: approx. 0.4-1.5 kg/m²

Consumption: approx. 1.8 kg/m² per mm layer thickness (filled)

Note:

- Apply a levelling coat for roughness depths > 0.5 mm.

4) Self-adhesive conductive strip:

- StoDivers LB 100

- Affix the product to the prepared substrate.

- Pull the free ends vertically up the wall surface and connect to ground.

- Overlap the joints of the conductive strip by 5 cm.

- Optional: Connection to ground is also possible using the conducting set.

product: StoDivers LS

Note:

- A connection to ground is required for every 100 m² of surface.

- The number and location of the groundable points must be determined by an electrician.

- Only an electrician is permitted to ground connections of the conductive strips or conducting set.

5) Apply a conductive layer:

- StoPox WL 110

- Dilute with approx. 10 % water.

- Apply the product evenly. Tools: short-pile roller sleeve

- consumption: approx. 0.12-0.15 kg/m²

Note:

- Check the resistance to ground before applying the top coat. This ensures the functionality of the conductive layer.

- Resistance to ground: StoPox WL 110 maximum 50 kiloohm

6) Apply textured coating:

- StoPox KU 411

- Decant the product. Tools: squeegee, V-notch 23

- Rework the product with a roller. Tools: coarse texturing roller

- Consumption: approx. 0.6–0.7 kg/m², depending on the desired texture

Note:

- Apply the product to a sample surface area to define the desired texture.

- Only one application cycle is permitted.

- Avoid unnecessary use of rollers.

Application:

- Changing temperatures during application and hardening may influence the texture of the sealing coat.

UV stress, colour shade deviation:

- Any yellowing which occurs under UV stress does not impair the technical properties.

- Exposure of the chemicals may cause discolouration, which does not, however,

Technical Data Sheet

StoPox KU 411

impair the technical function of the coating.

Drying, curing, ready for next coat	fully cured, earliest contact with water: at +23 °C: after 7 days
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Cleaning the tools	Clean tools with StoDivers EV 100 or StoCryl VV.
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Notes, recommendations, special information, miscellaneous	Observe the general application instructions: - see www.stocretec.de, Products - see technical manual, notes Declaration of performance, CE marking: - declaration of performance: see www.stocretec.de - The abrasion resistance specified in the declaration of performance refers to the smooth, not scattered covering.
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Delivery

Colour shade	RAL colour fan, limited colour choice, lighter colour shades have a weaker hiding power
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Packaging	pail and tin
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	Article number	Name	Container
	03725/006	StoPox KU 411 Set tinted	15 kg set
	03725/004	StoPox KU 411 Set tinted	30 kg set

Storage

Storage conditions	Store in dry and frost-free conditions. Protect from direct sunlight.
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Storage life	The product quality is best guaranteed in its unopened original container until its shelf life has expired. This information is included in the batch number on the container. Explanation of batch nos.: digit 1 = last digit of the year, digits 2 + 3 = calendar week, example: 2450013223 - storage life ends at week 45 in 2022 See product packaging
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Identification

Product group	Sealing coat
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Technical Data Sheet

StoPox KU 411

GISCODE

RE90
(formerly RE 30)

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/>

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

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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.

Technical Data Sheet

StoPox KU 411

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