Technical Data Sheet

StoPox KU 401

EP textured sealing coat



Characteristics

Area of application

- interior
- for cementitious substrates such as concrete or screed surfaces
- as a coloured, textured sealing coat for industrial flooring
- for production areas in the food-processing industry

Properties

- adjusted to be shear-thinning
- free from additives which damage the lacquer
- for short-term cleaning +80 °C, if permanently wet max. +40 °C

Appearance

- dimpled texture
- gloss

Information/notes

- product is in accordance with EN 1504-2
- product is in accordance with EN 13813
- various test certificates

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bond strength	EN 1542	> 2,0 MPa	

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

The substrate must be dry, load-bearing, and free from native and foreign release agents.
Remove less strong layers and laitance.

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

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	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: +25 °C max. approved relative humidity: 85 %
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 = 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 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 mixing.
Consumption	Type of application: as sealer — Approx. consumption: 0,6 - 0,7 kg/m² 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	Textured coating standard structure: 1) Substrate preparation 2) Prime coating, e.g. of StoPox GH 205 3) Textured coating of StoPox KU 401 4) floor finish using StoDivers P 105 or StoDivers P 120 (optional)
Application	

Textured coating standard structure:

1) Substrate preparation

2) Prime coating of StoPox GH 205
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. StoPox GH 205 levelling filler coating (optional)
Fill StoPox GH 205 either 1 : 1 to 1 : 3 parts by weight with Sto Zuschlag KS or with a mixture of 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)

4) Textured coating: StoPox KU 401
Decant the mixed material using a steel squeegee (Polyplan 23 triangular toothing) and spread. Produce the knob structure by rolling subsequently with a texturing roller (coarse, Sto-Tool Catalogue).

Create sample surfaces in order to define the desired texture.

See notes below.

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

5) Floor finish using StoDivers P 105/StoDivers P 120 (optional)
When the industrial flooring is clean and has cured, evenly apply a thin layer of floor finish. Apply the material using a pre-dampened mop. Leave the floor to dry sufficiently, approx. 20 - 30 min.

Carry out the second application cycle at right angles (perpendicular) to the previous application. It is very important to observe the specified drying times between application cycles. Depending on the expected stress, several application cycles may be necessary.

Consumption: approx. 30 - 50 ml/m² per application cycle

Avoid direct sunlight, high temperatures, and draughts during application.

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 the 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)

Note:
After applying the material with a notched squeegee, e.g. Polyplan type 23, quickly rework immediately with a coarse texturing roller. Avoid any unnecessary rolling back and forth.

Cleaning the tools	StoCryl VV / StoDivers EV 100
Notes, recommendations, special information, miscellaneous	Visual changes cannot be ruled out in case of frequent temperature- and chemicals-related stress. The declaration(s) of performance can be obtained from the StoCretec Technisches InfoCenter 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

Colour shade	RAL colour fan, limited colour choice, lighter colour shades have a weaker hiding power
Packaging	pail and tin

Article number	Name	Container
03710/009	StoPox KU 401 Set tinted	15 kg set
03710/006	StoPox KU 401 Set tinted	30 kg set

Storage

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

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

Identification	
Product group	Sealing coat
GISCODE	RE30
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/ 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

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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.

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