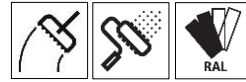


Technical Data Sheet

StoPox KU 601

High chemical and mechanical resistant epoxy coating, free from benzyl alcohol



Characteristics

Area of application

- For interior application on floor surfaces
- For industrial floor surfaces subject to high mechanical and chemical stresses

Properties

- High chemical resistance (see chemical resistance list)
- High mechanical resistance
- Rapid hardening at room temperatures
- High abrasion and weathering resistance

Appearance

- Glossy

Information/notes

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

Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Density	EN ISO 2811	1.51 – 1.57 g/cm ³	
Compressive strength	ASTM C579	> 95 N/mm ²	
Tensile strength	ASTM C307	> 24 N/mm ²	
Flexural strength	ASTM C580	> 47 N/mm ²	
Adhesion strength	ASTM D7234	> 1.5 N/mm ²	
Shore D hardness	ASTM D2240	81 – 87	
Viscosity	EN ISO 3219	1,300 – 1,900 mPa.s	
Abrasion resistance according to Taber device	ASTM D4060	40 mg	CS 10 / 1000 cycle /1000g

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 sound, dry, load bearing and free from native and foreign substances that have a separating effect. Remove less strong layers and laitance.

The maximum moisture content of the substrate should not exceed 4% by weight measured with the CM device.

Substrate temperature greater than +8°C and 3 K above dew point.

Average adhesion strength >1.5 N/mm². Adhesion 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: +8°C
Highest application temperature: +30°C

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Time for application	At +10°C : approx. 40 minutes At +23°C : approx. 25 minutes At +30°C : approx. 10 minutes	
Mixing ratio	Component A : Component B = 100.0 : 21.1 parts by weight	
Material preparation	<p>Component A and Component B are supplied in the correct mixing ratio and should be mixed in accordance with the following instructions.</p> <p>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.</p> <p>It is also vital to stir thoroughly at the sides and the bottom in order to evenly distribute the hardener. Mixing time at least 3 minutes.</p> <p>Do not apply from the delivery container! After mixing, transfer the material into a clean container and stir it thoroughly once again. The temperature of the individual components must be min. +15°C when mixing. Use the product as quickly as possible after mixing.</p>	
Consumption	Type of application	Approx. consumption
	Per mm layer thickness, for a coating up to 1 mm	1.5 kg/m ²
	Per mm layer thickness, for a coating up to 1 - 3 mm	1.2 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	<p>Industrial floor coating, smooth</p> <ol style="list-style-type: none"> 1) Substrate preparation 2) Prime coating of StoPox GH 205 3) Scratch coat (optional, e.g. roughness > 0.5 mm) 4) Coating of StoPox KU 601 (unfilled/filled depending on the layer thickness) 5) Matting sealing coat of StoPox WL 150 transparent (optional) 6) Care treatment using StoDivers P 105 / StoDivers P 120 (optional) 	
Application	<p>Industrial floor coating, smooth</p> <ol style="list-style-type: none"> 1) Substrate preparation 2) Prime coating of StoPox GH 205 Apply in flood coat using a rubber squeegee and distributed evenly by rolling down to ensure complete sealing of all substrate pores. Avoid puddle formation. Consumption: approx. 0.20 – 0.30 kg/m², depending on substrate and application conditions. If the coating is not to be overcoated within 48 hours, the fresh primer should be scattered off with Sto Filler 60/100 or Sto Filler 30/60 (not to excess, but grain to grain). Consumption: approx. 0.5 – 1.0 kg/m². 3) Scratch coat (optional, for roughness depths > 0.5 mm) For very rough substrate fill StoPox GH 205 1 : 1 by weight with Sto Filler 60/100 and Sto Filler SM 100 (50 : 50 pbw) Consumption of StoPox GH 205 approx. 0.3 – 0.4 kg/m² Consumption of Sto Filler : approx. 0.3 – 0.4 kg/m² Consumption of ready filled mixture: approx. 0.6 – 0.8 kg/m² 	

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- 4) Coating of StoPox KU 601
 Apply the mixed material with a squeegee (48 or 95 notching) and evenly spread it. De-air by using a spiked roller in a criss-cross pattern. For thickness < 0.8mm use a loop roller instead.
 The minimum consumption depends on the substrate and the desired appearance / hiding power.
 On smooth substrates, layer thicknesses < 0.5 mm normally leads to surface defects.
- Coating up to 1mm; unfilled
 Consumption of StoPox KU 601: approx 1.5 kg/m²
 Coating thickness < 0.5 mm must be applied on smooth surfaces otherwise it may lead to spreading disruption
 Minimum consumption of 0.8 kg/m² (smooth, grinded substrate), RAL 7023 / RAL 7032 are recommended colours for such thickness
- Coating of 1 - 3 mm
 Filling degree 1 : 0.5 in parts by weight with Sto Filler 60/100
 Consumption of StoPox KU 601: approx. 1.2 kg/m²/mm layer thickness
 Consumption of Sto Filler 60/100: approx. 0.6 kg/m²/mm layer thickness
 Consumption of total mixture: approx. 1.8 kg/m²/mm layer thickness
- 5) Matting sealing coat of StoPox WL 150 transparent (optional)
 Dilute the mixed material with approx. 15% water and mix again.
 Apply using a nylon roller (pile length 13 - 14 mm) in a criss-cross pattern.
 1 to 2 application cycles may be required.
 Consumption: approx. 0.13 - 0.15 kg/m² per application cycle
 We recommend applying StoPox WL 150 transparent with a 25 cm roller and then rolling it in a criss-cross pattern using a 50 cm wide roller.
- 6) Care treatment using StoDivers P 105 / StoDivers P 120 (optional)
 When the industrial flooring is clean and has cured, evenly apply a thin layer of care treatment. Apply the material using a pre-dampened, lint-free 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. 0.02 – 0.05 lit/m² per application cycle .

Note:

Exposure to direct sunlight, high temperatures, and draughts should be avoided during application.

Depending on chemical load, optical discolouration may appear. These do not however impair the technical function of the coating.

At low material and substrate temperatures, material consumption per m² increases due to the rise in viscosity.

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

Drying, curing, ready for next coat

Reworking time :
 At 10°C : approx. 16 hours
 At 23°C : approx. 8 hours
 At 30°C : approx. 4 hours
 Full cure at 7 days

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Cleaning the tools Tools must be cleaned immediately after use with cleaning solvent.

Notes, recommendations, special information, miscellaneous Please consult the local sales office for further information and any site assistance required.

Delivery

Colour Basic range (PG 11)
Special range (PG 12)

Packaging	Name	Packing
	StoPox KU 601	10 kg set
	StoPox KU 601	30 kg set

Storage

Storage conditions Store in cool dry conditions; avoid direct sunlight.

Storage life This product has a shelf life of 12 months from the manufacturing date.

Identification

Product group Self-levelling

Safety Please refer to Safety Data Sheet.

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 www.sto-sea.com.

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