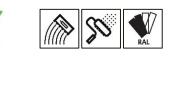


Technical Data Sheet StoPox KU 405

Solvent free epoxy resin floor coating, low-emission, free from benzyl alcohol

SINGAPORE GREEN BUILDING PRODUCT SGBC





Characteristics		
Area of application	 Interior On floor areas As a coloured floor coating in industrial or public areas 	
Properties	 Free from benzyl alcohol Low-emission and low-odour Mechanical and chemical resistance Excellent flow and ventilation properties 	
Appearance	Gloss	
Information /notes	 Product fulfils requirements from the Singapore Green Building Council as a Green Mark certified leader Product is in accordance with EN 13813 	

Technical Data

Standard / test specification	Value/ Unit	Notes
EN ISO 2811	1.35 - 1.45 g/cm ³	
ASTM C579	> 90 N/mm²	
ASTM C580	> 30 N/mm ²	
ASTM D7234	> 1.5 N/mm²	
ASTM D2240	79 – 85	
EN ISO 3219	1,400 - 2,200 mPa.s	
ASTM D4060	50 mg	CS 10/ 1000U/1000g
	specificationEN ISO 2811ASTM C579ASTM C580ASTM D7234ASTM D2240EN ISO 3219	specification Value/ Unit EN ISO 2811 1.35 - 1.45 g/cm³ ASTM C579 > 90 N/mm² ASTM C580 > 30 N/mm² ASTM D7234 > 1.5 N/mm² ASTM D2240 79 - 85 EN ISO 3219 1,400 - 2,200 mPa.s

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/mm ² . Adhesion strength of the single smallest value 1.0 N/mm ² .
Preparations	Prepare the substrate using a suitable mechanical process such as shot-blasting, milling and then shot-blasting, or abrasive blasting.



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Application				
Application temperature	Lowest application temperature: +15°C Maximum approved relative humidity 60% Highest application temperature: +30°C Maximum approved relative humidity 85%			
Time for application	At +15°C : approx. 75 minutes At +20°C : approx. 60 minutes At +30°C : approx. 30 minutes			
Mixing ratio	Component A : component B = 100.0 : 23.0 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 b hardener. Mixing time at least 3 minutes.	ottom in order to evenly distribute the		
	Do not apply from the delivery container! After mixing, transfer the material into a clean contain	ner and stir it thoroughly once again.		
	The temperature of the individual components must l	pe min. +15°C when mixing.		
Consumption	Type of application	Approx. consumption		
	As a sealing coat, depending on substrate	0.20 – 0.25 kg/m ²		
	Per mm layer thickness, for a coating up to 1mm	1.4 kg/m ²		
	Per mm layer thickness, for a coating up to 2mm	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	 Industrial / Public floor coating, smooth 1) Substrate preparation 2) Prime coating of StoPox GH 205 3) Scratch coat (optional, e.g. roughness > 0.5mm) 4) Coating of StoPox KU 405 (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	Industrial / Public floor coating, smooth			
	1) Substrate preparation			
	 Prime coating of StoPox GH 205 Apply in flood coat using a rubber squeegee and 			
	ensure complete sealing of all substrate pores. A	void puddle formation.		
	ensure complete sealing of all substrate pores. A Consumption: approx. 0.20 – 0.30 kg/m ² , depend conditions.	ing on substrate and application		
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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
	Consumption of StoPox GH 205 approx. $0.3 - 0.4$ kg/m ² Consumption of Sto Filler : approx. $0.3 - 0.4$ kg/m ²
	Consumption of ready filled mixture: approx. 0.6 - 0.8 kg/m ²
4)	Coating of StoPox KU 405 Apply the mixed materials evenly with a roller for coating at approximately 0.3mm. Apply the mixed material with a squeegee (48 or 95 notching) and evenly spread it for self-levelling. 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.
	Coating at 0.3 mm (Roller Applied): Consumption of StoPox KU 405: Approx. 0.2 kg – 0.25 kg/m ² /coat Minimum of 2 coats is required
	Coating up to 1 mm (Self-levelling): Consumption of StoPox KU 405, unfilled: at least 1.4 kg/m ²
	Coating up to 2 mm (Self-levelling): Consumption of StoPox KU 405: approx. 1.2 kg/m ² /mm layer thickness Consumption of Sto Filler 60/100: approx. 0.3 kg/m ² /mm layer thickness Consumption of total mixture: approx. 1.5 kg/m ² /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/m ² 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/m ² per application cycle
	te: otect StoPox KU 405 from direct contact with water for approx. 36 hours (at +15 °C) er application.
	mperatures under the minimum application temperature of +15 °C slows down curing d can lead to quality defects (e.g. visual impairments)
	posure to direct sunlight, high temperatures, and draughts should be avoided during plication.
	y yellowing which occurs under UV stress does not impair the technical properties. hter colour shades are particularly affected.



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Drying, curing, ready for next coat	Reworking time: At +15°C : approx. 48 hours At +25°C : approx. 36 hours At +30°C : approx. 30 hours		
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 405	30 kg	
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.		
	after prior consultation. When	entioned in this Technical Data Sheet are permissible only e no approval is given, such applications are at the user's cular when the product is used in combination with other	
		Sheet is published, all previous Technical Data Sheets are rsion is available on www.sto-sea.com.	

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