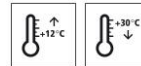


Technical Data Sheet

StoCrete PU 290

PUR sealing coat, mineral pre-filled, thermally resistant up to +90 °C



Characteristics

Area of application

- interior
- for floors in food production and beverage production
- on the scattered coating StoCrete PU 205
- permanently wet area
- temperature range: -15 °C to +90 °C

Properties

- PUR-based, four-component sealer
- water-based, environmentally friendly, PUR binding agent
- not harmful to the environment during application
- component C: cementitious
- mechanically and chemically resistant
- thermal compatibility
- meets the requirements of HACCP

Appearance

- coloured, matt

Information/notes

- Observe the implementation instructions.
- The product is in accordance with DIN EN 13813.

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811-2	1.62 g/cm ³	
Compressive strength (28 days)	EN ISO 196 / ASTM C109	> 49 N/mm ²	
Flexural strength (28 days)	EN ISO 196 / ASTM C109	> 26 MPa	
Viscosity (at 23 °C)		3,200 mPa.s	
Shore hardness type D	EN ISO 868	77	(28 days)
Water absorption coefficient Aw	EN 1062 -3		w < 0,01 kg / (m ² *h ^{0,5})
Non-volatile content		99 %	

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.

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Substrate

Requirements

Requirements:

- Dry, load-bearing
- Free from separating, native, or foreign substances
- Remove all weak layers.
- Dry in accordance with the definition contained in the DAfStb (German Committee for Reinforced Concrete) Repair Guideline 2001-10
- Bond strength: at least 1.5 N/mm²

Suitable substrates:

Prerequisite: Substrates have been professionally installed and prepared.

- A) StoCrete PU 205, scattered with quartz sand
- B) StoCrete PU 255, scattered with quartz sand
- C) Other substrates are available on request.

The following substrates are not suitable:

- A) Screeds with low strengths, bituminous substrates, magnesium screeds, and anhydrite screeds
- B) Bricks, tiles, cellular concrete, wood
- C) Galvanised steel and stainless steel, non-ferrous heavy metals, aluminium
- D) All existing coatings
- E) E.g. polyethylene, sheeting, vapour barriers

Preparations

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

Application

Application temperature

permissible substrate temperature:
minimum temperature: +12 °C

permissible application temperature:
minimum temperature: +12 °C
Maximum temperature: +30 °C

Time for application

at +20 °C: 10-15 minutes

Mixing ratio

component A : component B : component C : component D
A : B : C : D
6 : 6 : 12 : 1.08 (4 x 0.27)

Recommendation:

- Mix the entire delivery container.
- Do not process partial amounts.

Material preparation

Notes:

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- The mixing equipment should be placed as close as possible to the workplace.
- The material temperature is between 15 °C and +25 °C.
- The temperature of all components is between +15 °C and +25 °C.
- Observe the order of the "Preparing material" steps.

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.

Possible consequences if mixing times are too long or too short:

- The aggregates are hard to distribute.
- The product has poorer flowability.
- Roller seams are visible.
- Very small holes and bubbles form in the cured layer.
- A surface with visible strips develops.
- Differences in colour shade appear between the seams.

Colour differences:

- Differences in colour shade between the seams cannot be avoided. The colour differences depend on the mixing process and mixing time.
- Differences in colour shade can be kept low as follows:
 - 1) Apply the components in ascending batch numbers.
 - 2) Observe the mixing time. Mix each container for the same length of time.
Exception: large differences in temperature.
 - 3) Observe the quantities: single or double quantities

Components:

- Component D and component A: for mixing the dispersion. Component D are pigments in a cartridge. Mix in four cartridges of pigments per container. Only use pigments in cartridges from StoCretec.
- Component B: for adding to the dispersion
- Component C: as filler
- Use all of the components.

Prepare material:

- 1) Add component A to the mixing container.
- 2) Add component D to component A in the mixing container. Mix the components for 1 minute until a coloured dispersion forms.
- 3) Add component B. Mix the components for 2 minutes.
- 4) Ensure that the mixing equipment covers the floor areas and perimeter areas of the mixing container.
- 5) Add component C and mix until the filler has dispersed well and the mix is homogeneous.

Consumption	Type of application	Approx. consumption		
	on StoCrete PU 205 with quartz sand scatter	0.8 - 1.4	kg/m ²	
	vertical	0.2 - 0.4	kg/m ²	

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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

coating build-up A: StoCrete PU 205, slip-resistant surface
- layer thickness of the coating build-up: approx. 5-7 mm
1) Prepare the substrate.
2) Mill the recesses in the substrate.
3) Priming: StoCrete PU 105, component A, B, C
4) Coating: StoCrete PU 205, component A, B, C, D
5) Scatter: StoQuarz 0.6-1.2 mm
6) Sealing coat: StoCrete PU 290, component A, B, C, D

Application

Notes:

- permissible substrate temperature: +12 °C
- StoCrete PU 205 has high residual stress. For this reason, recesses must be milled into the substrate for anchoring the first layer. Observe the implementation instructions.
- Tools required: soft or hard rubber squeegee, short-pile roller sleeve, paint brush
- application on dry mineral substrates

coating build-up A: StoCrete PU 205, slip-resistant surface

- 1) Prepare the substrate.
- 2) Mill the recesses in the substrate.
- 3) Priming:
 - StoCrete PU 105, component A, B, C
 - roughness depth: 0.5-1 mm on normal absorbent mineral substrates
 - Consumption: approx. 2-3 kg/m² plus material consumption for the recesses in the substrate
- 4) Coating:
 - StoCrete PU 205, component A, B, C, D
 - Consumption: approx. 7-11 kg/m²
- 5) Scatter:
 - StoQuarz 0.6-1.2 mm
 - Scatter StoQuarz 0.6-1.2 mm full-faced so that no gaps remain.
 - Do not scatter a surplus of StoQuarz 0.6-1.2 mm.
 - Consumption: approx. 6-8 kg/m²
- 6) Sealing coat:
 - StoCrete PU 290, component A, B, C, D
 - consumption: approx. 0.8-1.4 kg/m², depending on the desired roughness

Note:

- the appearance of the surface may change under the following conditions:
- The covering is exposed to strong light.
 - The covering is exposed to thermal and chemical strain.
 - The technical properties of StoCrete PU 205 are not impaired.

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Approve the covering:

- At an ambient temperature and substrate temperature of +20 °C, the system develops its maximum chemical resistance after 5 days.
- The covering can be released for people to walk on after 12 hours and for vehicles after 2 days.

Cleaning the tools Clean tools with StoCryl VV.

Notes, recommendations, special information, miscellaneous

- 1) Observe the general application instructions:
 - see www.stocretec.de, products
 - see the technical data sheets manual, annex
- 2) Observe the implementation instructions.

Please observe our general application guidelines for StoCretec PU systems. StoCretec PU products should only be applied by trained personnel.

Delivery

Colour shade red, orange, yellow, cream, brown, dark grey, light grey, blue, green pigments in cartridge
The respective colour shades, StoCrete PU 205/255/290, component D are available in an 0.27 kg cartridge.

Article number	Name	Container
09717/001	StoCrete PU 290 Set	24 kg set
09719-001	StoCrete PU 290 Comp. C	12 kg bag
09718-001	StoCrete PU 290 Comp. B	6 kg pail
09717-001	StoCrete PU 290 Comp. A	6 kg can

Storage

Storage conditions Dry in a well-ventilated room without any sources of heat for 6 months, temperature: between +5 °C and +30 °C

Storage life The product quality is best guaranteed in its unopened original container until its shelf life has expired. The first digit of the batch number is the final digit of the year. The second and third digits indicate the calendar week. Example: 1450013223 - shelf life until end of calendar week 45 in 2021. In the original container until ... (see packaging).

Certificates/approvals

Eignung: Suitability for direct contact with food

Eignung: Slip resistance

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Identification

Product group Sealer

Safety This product is subject to compulsory labelling in accordance with the current EU regulation.
Observe the 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 the Internet.

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