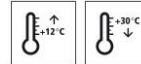


# Technical Data Sheet

## StoCrete PU 205

PUR mortar, coloured, self-levelling, thermally resistant up to +90 °C, layer thickness 4-6 mm



### Characteristics

- Area of application**
- interior
  - on mineral substrates
  - 4-5 mm temperature range: -5 °C to +70 °C
  - 6 mm temperature range: -15 °C to +90 °C
  - as a coloured coating in food producing areas
  - as a base coat for scatter coating under the product StoCrete PU 290

### Properties

- 4-component self-spreading mortar
- layer thickness: 4-6 mm
- water-based, environmentally friendly, PUR binding agent
- solvent-free
- odour-free, flavour is not transferred to food
- not harmful to the environment during application
- component C: cementitious
- mechanically resistant and chemically resistant
- meets the requirements of HACCP
- thermal compatibility

### 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	1.89 g/cm <sup>3</sup>	
Viscosity (at 23 °C)		7,000 mPa.s	
Shore hardness type D	EN ISO 868	80	(28 days)
Compressive strength	EN ISO 196 / ASTM C109	> 45 N/mm <sup>2</sup>	

## Technical Data Sheet

### StoCrete PU 205

Water absorption coefficient $A_w$	EN 1062-3	$w < 0,01 \text{ kg} / (\text{m}^2 \cdot \text{h}^{0,5})$
Non-volatile content		99 %
Flexural strength	EN ISO 196 / ASTM C109	$> 19 \text{ N/mm}^2$

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

##### Requirements:

- Dry, load-bearing
- Free from separating, native, or foreign substances
- Remove all weak layers.
- Dry according to the definition contained in the DAfStb (German) Repair Guideline, issue 2001-10.
- Bond strength: at least  $1.5 \text{ N/mm}^2$

##### Suitable substrates:

Prerequisite: Substrates have been professionally installed and prepared.

##### A) Monolithic concrete

- Compressive strength class: at least C30/37 in accordance with DIN EN 206-1: 2008-8, in accordance with DIN 1045-1: 2001-7
- Except lightweight concrete

##### B) Polymer-modified cementitious screed

- Smoothed by machine in a bond
- Compressive strength class: at least CT-C50 in accordance with DIN 18560, in accordance with DIN EN 13813
- Minimum layer thickness:  $> 60 \text{ mm}$

##### C) Polymer-modified screed on a separating layer

- Reinforced, smoothed by machine
- Compressive strength class: at least CT-C50 in accordance with DIN 18560, in accordance with DIN EN 13813
- Minimum layer thickness:  $> 60 \text{ mm}$

##### D) Load-bearing coatings already available:

- StoCrete PU 205
- StoCrete PU 255
- StoCrete PU 285

The following substrates are not suitable:

- A) Screeds with low strengths, bituminous substrates, magnesium screeds, and anhydrite screeds

## Technical Data Sheet

### StoCrete PU 205

- B) Bricks, tiles, cellular concrete, wood
- C) Galvanised steel and stainless steel, non-ferrous heavy metals, aluminium
- D) All existing coatings, except StoCrete PU 205, StoCrete PU 255, StoCrete PU 285
- 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  
4.5 : 4.5 : 21 : 0.27

##### Recommendation:

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

##### Material preparation

##### Notes:

- 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.
- Too many trowel marks are visible.
- Very small holes and bubbles form in the cured layer.
- A wavy surface develops.

## Technical Data Sheet

### StoCrete PU 205

#### Components:

- Component D and component A: for mixing the dispersion.
- Component D are pigments in a cartridge.
- Component B: for adding to the dispersion
- Component C: as filler
- Use all of the components.

#### Preparing the material:

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

Consumption	Type of application	Approx. consumption	
	mortar mixture 4 mm	7.6	kg/m <sup>2</sup>
	mortar mixture 6 mm	11.4	kg/m <sup>2</sup>

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, smooth surface  
 - layer thickness of the coating build-up: approx. 4-6 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

coating build-up B: 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: 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.

## Technical Data Sheet

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### StoCrete PU 205

Observe the implementation instructions.

- Tools required: pin leveller and floor squeegee
- application on dry mineral substrates

coating build-up A: StoCrete PU 205, smooth 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/m<sup>2</sup> plus material consumption for the recesses in the substrate
  - 4) Coating:
    - StoCrete PU 205, component A, B, C, D
    - Consumption: approx. 7-11 kg/m<sup>2</sup>
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coating build-up B: 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/m<sup>2</sup> plus material consumption for the recesses in the substrate
- 4) Coating:
  - StoCrete PU 205, component A, B, C, D
  - Consumption: approx. 7-11 kg/m<sup>2</sup>
- 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/m<sup>2</sup>
- 6) Sealing:
  - StoCrete PU 290, component A, B, C, D
  - Consumption: approx. 0.6-0.9 kg/m<sup>2</sup>, 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.

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

## Technical Data Sheet

### StoCrete PU 205

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](http://www.stocretec.de), Products
  - see technical manual, notes
- 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  
The respective colour shades, StoCrete PU 205/255/290, component D are available in an 0.27 kg cartridge.

**Packaging** Can

Article number	Name	Container
09715/009	StoCrete PU 205 Set yellow	30.27 kg set
09715/008	StoCrete PU 205 Set red	30.27 kg set
09715/007	StoCrete PU 205 Set orange	30.27 kg set
09715/006	StoCrete PU 205 Set green	30.27 kg set
09715/005	StoCrete PU 205 Set light-grey	30.27 kg set
09715/004	StoCrete PU 205 Set dark-grey	30.27 kg set
09715/003	StoCrete PU 205 Set cream	30.27 kg set
09715/002	StoCrete PU 205 Set brown	30.27 kg set
09715/001	StoCrete PU 205 Set blue	30 kg set

#### 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

## Technical Data Sheet

### StoCrete PU 205

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

#### Identification

Product group Coating

#### 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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