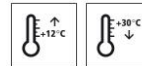


Technical Data Sheet

StoCrete PU 285

PUR mortar for fillets and vertical surfaces, stable



Characteristics

Area of application

- interior
- as a mortar for fillets and as a non-sag mortar for vertical surfaces
- on mineral substrates
- temperature range: -15 °C to +90 °C

Properties

- mortar on a PUR base
- water-based PUR binder
- odour-free, flavour is not transferred to food
- component C: cementitious
- mechanically and chemically resistant
- thermal compatibility
- meets the requirements of HACCP

Appearance

- colourless

Information/notes

- the product is in accordance with DIN EN 13813

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Density	EN ISO 2811-2	≤ 2,2 g/cm ³	
Compressive strength	EN ISO 196 / ASTM C109	> 27 MPa	
Flexural strength	EN ISO 196 / ASTM C109	> 7 MPa	
Viscosity (at 23 °C)			non-sag mortar
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.

Substrate

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Requirements

Requirements:

- Dry, load-bearing
- Free from separating, native, or foreign substances
- Remove all weak layers.
- Dry in accordance with the definition in EN 1504-10
- Bond strength: at least 1.5 N/mm²

Suitable substrates:

Prerequisite: Substrates have been professionally installed and prepared.

A) Monolithic concrete

- Compressive strength class: at least C25/30 in accordance with DIN EN 206-1, in accordance with DIN 1045-1
- Except lightweight concrete

B) Polymer-modified cementitious screed

- Smoothed by machine in a bond
- Compressive strength class: at least CT-C30 in accordance with DIN 18560, in accordance with DIN EN 13813
- Minimum layer thickness: > 25 mm

C) Polymer-modified screed on a separating layer

- Reinforced, smoothed by machine
- Compressive strength class: at least CT-C40 in accordance with DIN 18560, in accordance with DIN EN 13813
- Minimum layer thickness: > 75 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
- 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 laying instructions.

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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
A : B : C
1 : 1 : 12

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:

- Length of mixing time approx. 3 minutes after addition of filler component C.
- 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.
- Too many trowel marks are visible.
- Very small holes and bubbles form in the cured layer.

Components:

- Component A and component B: for mixing the primer
- Component C: as filler
- Use all of the components.

Preparing the material:

- 1) Fill component A and component B into the mixing container.
- 2) Mix the components.
- 3) Ensure that the mixing equipment covers the bottom and the rim areas of the mixing container.
- 4) Add component C and mix until the filler has dispersed well and the mix is homogeneous.

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Consumption	Type of application	Approx. consumption	
	per mm layer thickness	2,25	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	Coating build-up: StoCrete PU 285 - layer thickness of the coating build-up: approx. 3-6 mm 1) Prepare the substrate. 2) Mill the anchoring incisions into the substrate. 3) Priming: StoCrete PU 105, component A, B, C 4) Apply mortar (wet on wet): StoCrete PU 285, component A, B, C 5) Sealing: StoCrete PU 290		
Application	Notes: - permissible substrate temperature: +12 °C - StoCrete PU 285 has high residual stress. For this reason, anchoring incisions must be milled into the substrate. Observe the laying instructions. - Tools required: plastering trowel or smoothing trowel Coating build-up: StoCrete PU 285 1) Prepare the substrate. 2) Mill the anchoring incisions into the substrate. 3) Priming: - StoCrete PU 105, component A, B, C - roughness depth: 0.5-1 mm on normal absorbent mineral substrates - Consumption: approx. 1–2 kg/m ² plus 150–200 g/lfm material consumption for anchoring incisions in substrate 4) Apply mortar (wet on wet): - StoCrete PU 285, component A, B, C - consumption vertical: approx. 0.2-0.4 kg/m ² 5) Sealing coat: - StoCrete PU 290, component A, B, C, D - consumption: approx. 0.2-0.4 kg/m ² , depending on the desired roughness Note: StoCrete PU 285 should be raised by max. 10–15 cm on the wall. For higher wall		

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applications, we recommend using other products (such as StoPox WL 100, consult TSC). Please note that there may be some colour variations.

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 285 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 vehicles after 2 days.

Cleaning the tools

Clean tools with StoCryl VV.

Notes, recommendations, special information, miscellaneous

Observe the implementation instructions.1) Observe the general application instructions:

- see 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

colourless

Article number

Name

Container

09711/002

StoCrete PU 285 Set

14 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 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).

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Identification

Product group Coating

GISCODE PU40

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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