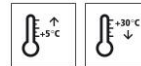


# Technical Data Sheet

## StoCrete TG 202

Repair mortar, polymer-modified, cementitious,  
layer thickness of 6-30 mm



### Characteristics

**Area of application**

- as concrete repair product for the repair of concrete structures (concrete and reinforced concrete)

**Properties**

- polymer-modified, cementitious concrete repair product (PCC / RM)
- very good adhesive strength on a concrete substrate
- good overhead application
- very good non-sag properties
- provides highly effective protection when exposed to ice and salt

**Information/notes**

- product is in accordance with EN 1504-3
- as a concrete replacement in the stress resistance class M 2 (PCC I, II) according to Rili-SIB

### Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bulk density of fresh mortar	EN 1015-6	2.2 kg/dm <sup>3</sup>	
Maximum particle size		2 mm	
Bond strength (28 days)	EN 1542	> 2.0 MPa	
Compressive strength	EN 12190	57 MPa	
Flexural strength	TP BE-PCC	10 MPa	
Static modulus of elasticity	EN 13412	22 GPa	

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 on the substrate:  
The concrete substrate must be load-bearing and free from native and foreign substances that could interfere with adhesion, as well as from corrosion-promoting components (e.g. chlorides). Remove less strong layers and laitance.

Damp in accordance with the definition in the DAfStb (German) Repair Guideline 2001-10.  
Preparation grade of the exposed reinforcing steel after substrate preparation: Sa

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2½ in accordance with EN ISO 8501-1.

Average bond strength: 1.5 N/mm<sup>2</sup>  
Bond strength, lowest single value: 1.0 N/mm<sup>2</sup>

### Preparations

Prepare the substrate using a suitable mechanical process, such as abrasive blasting or high-pressure water blasting (> 800 bar).  
Open pores and blow-holes sufficiently.

Bevel the edges of the areas of spalling under approx. 45°.

Note:  
Rework any treated surfaces using a suitable process (abrasive blasting) if the substrate preparation process has led to joint faults in the area of the remaining existing concrete close to the surface. These can result from chiselling, knocking, milling, or flame cleaning.

### Application

#### Application temperature

Lowest application temperature: +5 °C  
Highest application temperature: +30 °C

#### Time for application

At +5 °C: approx. 90 minutes  
At +23 °C: approx. 60 minutes  
At +30 °C: approx. 45 minutes

#### Mixing ratio

25 kg of material in accordance with the description/3.0 - 3.125 l water = 1.0 : 0.12 - 0.125 parts by weight  
SMF - technology: setting gauge glass approx. 300 l water / h

#### Material preparation

Compulsory mixer: decant water and add pre-blended dry mortar. Mix for approx. 2 minutes. Allow to mature for approx. 3 minutes. Remix for approx. 30 seconds.

If using hand-held paddle mixers, they should be counter-rotating and interlocking. Ensure that the mixing paddles of the mixer are at least 1/3 of the diameter and and at least 2/3 of the height of the mixing container.

If using single mixing paddles, these must have two stirring rings that act using the principle of countercurrent flow. The speed should be up to approx. 500 rpm.

Sto silo technology: mixing tube / 2-stage mixing shaft / subsequent mixing with a compulsory mixer.

#### Consumption

Type of application	Approx. consumption	
per mm layer thickness	2.0	kg/m <sup>2</sup>
Material consumption depends on the application, substrate, and consistency,		

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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

- 1) Substrate preparation
  - 2) Protection against corrosion: StoCrete TK (in case of exposed reinforcement)
  - 3) Mineral bonding agent with StoCrete TH 200
  - 4) Concrete repair with StoCrete TG 202
- Layer thickness: 6 - 30 mm, partially up to 100 mm  
Higher layer thicknesses are possible due to multi-layer work.

### Application

manually  
or  
machine application with StoSilo technology (SM) as non-regulated building product

#### 1) Substrate preparation

2) Protection against corrosion (for exposed reinforcement)  
Immediately after derusting of the reinforcing steel in accordance with EN ISO 12944, Part 4, coating with StoCrete TK is carried out in two application cycles. The reinforcing steels are coated uniformly without gaps using a paint brush.

Waiting times between the two application cycles: 4.5 hours.  
The protection against corrosion must be sufficiently hardened on the reinforcing steel so that it cannot detach from the reinforcing steel during the second application cycle.

First application cycle: StoCrete TK grey consumption approx. 130 g/m one-time application Ø up to 18 mm

Second application cycle: StoCrete TK light grey consumption approx. 140 g/m one-time application Ø to 18 mm

or

First application cycle: StoCrete TK grey consumption approx. 150 g/m one-time application Ø above 18 mm

Second application cycle: StoCrete TK light grey consumption approx. 160 g/m one-time application Ø above 18 mm

#### 3) Mineral bonding agent

The concrete foundation must be sufficiently wetted before applying StoCrete TH 200 (first time about 24 hours beforehand).

However, when applying the product, the concrete substrate must be dry enough that it appears only slightly damp.

Apply the StoCrete TH 200 bonding agent using a suitable tool, such as a paint brush or brush.

Remove any cured bonding agent by abrasive blasting and renew it.

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Consumption approx. 1.9 kg/m<sup>2</sup>

### 4) Concrete repair

Manually mix StoCrete TG 202 with a mortar tub and a counter-rotating stirrer or with a compulsory mixer.

### SMF technology:

Mix StoCrete TG 202 using SMF technology (silo and mixing), the mixing technology is integrated into the silo. It is possible to interrupt mixing at +25 °C for a max. of 30 minutes. Remix with a compulsory mixer. Duration: approx. 0.5 minutes.

Apply StoCrete TG 202 to the fresh adhesive slurry. Apply with a mason's trowel, spatula or square trowel. To ensure the adhesive bond always work fresh in fresh.

Consumption: approx. 22 kg/m<sup>2</sup> per cm spalling depth/layer thickness (mixed and compacted material)

Compact in layers, then trowel off the surface without smoothing to ensure bonding to the subsequent smoothing filler.

### 5) Curing

#### curing procedure:

- a) Cover with film or sheeting
- b) Spray with water
- c) Chemical curing

#### Note:

Chemical curing may only be carried out if the subsequent work is compatible with this.

It is not possible to achieve a uniform colour shade of the mortar surface for procedural reasons.

The foil must not touch the surface of the mortar.

A key part of curing is adequately wetting the concrete substrate before applying the mortar, so that the substrate is water-saturated and the fresh mortar does not extract mixing water.

### Drying, curing, ready for next coat

At +20 °C and 65 % relative humidity, over-coatable with: StoCrete TF 200 or StoCrete TF 204 after 5 days

### Cleaning the tools

Clean tools with water immediately after use.

### Notes, recommendations,

The declaration(s) of performance can be obtained from the StoCretec

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### special information, miscellaneous

Technisches InfoCenter  
General application instructions are available at [www.stocretec.de](http://www.stocretec.de) and in the notes of the latest Technical Manual.

### Delivery

**Packaging** sack

Article number	Name	Container
00414-001	StoCrete TG 202	25 kg bag

### Storage

**Storage conditions** Store in dry conditions.

**Storage life** In the original container until ... (see packaging).  
This product has a low chromate content.  
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.  
For further explanation, see the price list.

### Identification

**Product group** Repair mortar

### Safety

This product is subject to compulsory labelling in accordance with the current EU regulation.  
You will receive an EU Safety Data Sheet with your first order.  
Please observe the information regarding the handling of the product, its storage, and disposal.

### 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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