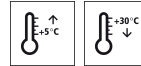


# Technical data sheet

## StoCrete TH 110

Bonding agent with integrated corrosion protection, polymer-modified, cementitious



### Characteristics

#### Areas of application

- as corrosion protection for reinforcing steel
- as a bonding agent to ensure a permanent bond between the concrete substrate and the subsequent concrete repair system

#### Properties

- polymer modified, cementitious corrosion protection and bonding agent (PCC), very good adhesive strength on reinforcing steel, very good corrosion protection, very good adhesive strength on concrete substrate

#### Information/notes

- component of the StoCretec system in accordance with the DAfStb (German) Repair Guideline 2001-10
- component of the StoCrete PCC I.2 system
- component of the StoCrete PCC I.3 system
- product is in accordance with EN 1504-7

### Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Apparent density of fresh mortar	EN 1015-18	2.3 kg/dm <sup>3</sup>	
Tensile strength (28 days)	EN 1542	1.5 MPa	

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that 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 on the substrate:

The concrete substrate must be load-bearing and free from native and foreign substances that have a separating action, as well as from corrosion-promoting components (e.g. chlorides). Remove less solid layers and laitance.

Damp in accordance with the definition in the DAfStb (German) Repair Guideline 2001-10.

The cleanliness grade of the exposed reinforcing steel following substrate preparation: Sa 2 1/2 in accordance with EN ISO 8501-1.

Average tensile bond strength 1.5 N/mm<sup>2</sup>

Tensile bond strength of the single smallest 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°.

#### Application

##### Application temperature

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

##### Mixing ratio

15 kg of material in accordance with the description / 3.75 l of water = 4.0 : 1.0 parts by weight

##### Material preparation

Pour water into a container and add the pre-blended dry mortar. Stir for approx. 2 minutes, allow to mature for approx. 3 minutes, and then stir again for approx. 30 seconds.

#### Consumption

Type of application

Approx. consumption

as corrosion protection for reinforcing steel Ø up to 18 mm	0.13	kg/m (layer 1)
as corrosion protection for reinforcing steel Ø over 18 mm	0.15	kg/m (layer 1)
as corrosion protection for reinforcing steel Ø up to 18 mm	0.14	kg/m (layer 2)
as corrosion protection for reinforcing steel Ø over 18 mm	0.16	kg/m (layer 2)

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as a bonding agent

2.0

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 procedure

- 1) Substrate preparation
- 2) Corrosion protection in 2 application cycles with StoCrete TH 110
- 3) Bonding agent StoCrete TH 110
- 4) Concrete restoration PCC I with StoCrete TG 114/StoCrete TG 118

#### Application

by paint brush, brush

- 1) Substrate preparation

- 2) Corrosion protection StoCrete TH 110

Immediately after derusting the reinforcing steel in accordance with EN ISO 12944, Part 4, apply StoCrete TH 110 in 2 application cycles with a total layer thickness of approx. 2 mm.

Coat the reinforcing steel completely and evenly using a paint brush.

Waiting time between the two application cycles at +20 °C is approx. 20 minutes. The corrosion protection must have hardened on the reinforcing steel to an extent that it cannot be loosened from the reinforcing steel during application cycle 2.

Application cycle 1: StoCrete TH 110 consumption approx. 130 g/m for single application Ø up to 18 mm

Application cycle 2: StoCrete TH 110 consumption approx. 140 g/m for single application Ø up to 18 mm

or

Application cycle 1: StoCrete TH 110 consumption approx. 150 g/m for single application Ø over 18 mm

Application cycle 2: StoCrete TH 110 consumption approx. 160 g/m for single application Ø over 18 mm

- 3) StoCrete TH 110 bonding agent

Sufficiently wet the concrete substrate before applying the bonding agent (about 24 hours before the first application cycle).

At the time of application, however, the concrete substrate must be dry to the point that it just appears slightly damp.

Waiting time between the corrosion protection and the adhesion-promoting agent at +20 °C is approx. 30 minutes.

Apply the StoCrete TH 110 bonding agent using a suitable tool such as a paint

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brush or brush.

Remove any cured bonding agent by blasting abrasive and renew it.  
Consumption approx. 2.0 kg/m<sup>2</sup> (dry material)

4) Concrete restoration product PCC I StoCrete TG 114/StoCrete TG 118  
Then apply the already-mixed concrete restoration product StoCrete TG 114 or StoCrete TG 118 on to the fresh bonding agent. To ensure a good adhesive bond, always work wet on wet.

#### Cleaning the tools

Clean with water immediately after use; hardened material can only be removed mechanically., Observe environmental protection.

#### Indications, recommendations, special information, miscellaneous

The Declaration(s) of Conformity can be obtained from the StoCretec Technical Information Centre  
General application instructions can be found at [www.stocretec.de](http://www.stocretec.de) (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix.

#### Delivery

##### Packaging

sack

Article number	Designation	Container
02557-001	StoCrete TH 110	15 kg bag

#### Storage

##### Storage conditions

Store in dry conditions.

##### Storage life

In the original container until ... (see packaging).

Store for max. 6 months

This product has a low chromate content. We guarantee this property until maximum storage life expires. Please observe the guaranteed storage life data on the batch no. shown on the container.

Explanation of batch number: e.g. 9450013223

In the example, storage life until the end of week 45 in 2009 (digit 1 = last digit of the year, digits 2 + 3 = calendar week) is guaranteed. For further explanation, see the price list.

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## StoCrete TH 110

### Certificates/approvals

P 4221/05-269	StoCretec PCC I.2 - System General building inspection test certificate
09/4221/05-269-367	StoCretec PCC I.2 System Certificate of Compliance
P 4221/09-359	StoCretec PCC I.3 System General building inspection test certificate
09/4221/09-359-366	StoCretec PCC I.3 System Certificate of Compliance

### Identification

**Product group** Corrosion protection and bonding agent

### Safety

This product is subject to compulsory designation in accordance with the current EU directive.  
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 or data 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. Nevertheless, users are responsible for establishing the suitability of the product for its intended use.

Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation. Where no approval is given, such applications are at the risk of the user. This applies particularly to combinations 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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