

Technical Data Sheet

StoCrete TH 250

Bonding agent, sulphate-resistant, polymer-modified, cementitious



Characteristics

- Area of application**
- to ensure a permanent bond between the concrete substrate and the subsequent concrete repair system
 - for sulphate-contaminated substrates, e.g. in wastewater treatment plants
 - as bonding agent underneath concrete repair mortar for extremely aggressive sulphate-contaminated water in accordance with DIN 4030

Properties

- polymer-modified, cementitious bonding agent
- very good adhesive strength on a concrete substrate
- high sulphate resistance

Information/notes

- product is in accordance with EN 1504-3

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bulk density of fresh mortar	EN 1015-6	1,9 kg/dm ³	
Bond strength (28 days)	EN 1542	> 2,0 MPa	

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 2½ in accordance with EN ISO 8501-1.

Average bond strength: 1.5 N/mm²

Bond strength, lowest single value: 1.0 N/mm²

Preparations

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

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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 / 5.75 - 6.25 l water = 1.0 :
 0.23 - 0.25 parts by weight

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.

Consumption	Type of application	Approx. consumption	
	as bonding agent	1,6	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 1) Substrate preparation
 2) Protection against corrosion: StoCrete TK (in case of exposed reinforcement)
 3) Mineral bonding agent with StoCrete TH 250
 4) Concrete repair with StoCrete TG 252 or StoCrete TG 254

Application 1) Substrate preparation

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2) Corrosion protection

3) Mineral bonding agent, sulphate-resistant

Sufficiently pre-wet the concrete substrate before applying StoCrete TH 250 (about 24 hours before the first application cycle).

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

Use a brush to work the bonding agent into the prepared substrate.

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

Consumption approx. 1.6 kg/m² as dry material

4) Concrete repair

Then apply the mixed mortar StoCrete TG 252 or StoCrete TG 254 to the fresh bonding agent in accordance with the Technical Data Sheets. To ensure a good adhesive bond, always work wet on wet.

Cleaning the tools	Clean tools with water immediately after use.
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Notes, recommendations, special information, miscellaneous	The declaration(s) of performance can be obtained from the StoCretec Technisches InfoCenter General application instructions are available at www.stocretec.de and in the notes of the latest Technical Manual.
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Delivery

Packaging	sack
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Article number	Name	Container
00717-001	StoCrete TH 250	25 kg bag

Storage

Storage conditions	Store in dry conditions.
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Storage life	In the original container until ... (see packaging).
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Identification

Product group	Bonding agent
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GISCODE	ZP1
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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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