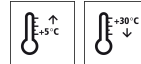


Technical Data Sheet

StoCrete BE Haftbrücke

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



Characteristics

Area 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

- product is in accordance with EN 1504-7

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

Average bond strength 1.5 N/mm²
Bond strength of the single smallest 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°.

Application

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

Time for application At +10 °C: approx. 90 minutes
At +23 °C: approx. 60 minutes
At +30 °C: approx. 40 minutes

Mixing ratio 20 kg of material in accordance with the description/5.6 - 6.0 l water = 1.0 : 0.28 - 0.3 parts by weight

Material preparation Decant water first and add the pre-blended dry mortar.
Stir for approx. 2 minutes. Allow to mature for approx. 3 minutes. Remix 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 |
| as corrosion protection for reinforcing steel Ø over 18 mm | 0.15 | kg/m | |
| as corrosion protection for reinforcing steel Ø up to 18 mm | 0.14 | kg/m | |
| as corrosion protection for reinforcing steel Ø over 18 mm | 0.16 | kg/m | |
| as a bonding agent | 1.9 | 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) Corrosion protection with StoCrete BE Haftbrücke in 2 application cycles
- 3) Bonding agent with StoCrete BE Haftbrücke
- 4) Reprofiling/PCC screed with StoCrete BE Mörtel grob

Application

1) Substrate preparation
Derust the exposed reinforcing steel in accordance with DIN EN ISO 12944-4 up to cleanliness grade Sa 2 1/2. The derusted reinforcing steel must be free from dust and grease.

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2) Corrosion protection

Immediately after derusting the reinforcing steel in accordance with DIN EN ISO 12944, Part 4, coat it with the bonding agent StoCrete BE Haftbrücke in 2 application cycles. Coat the reinforcing steel completely and evenly using a paint brush.

The waiting time between the individual application cycles is min. 3 hours. The protection against corrosion must have hardened on the reinforcing steel to an extent that it cannot be loosened from the reinforcing steel during the second application cycle.

First application cycle: StoCrete BE Haftbrücke, consumption approx. 140 g/m single application Ø up to 18 mm

Second application cycle: StoCrete BE Haftbrücke, consumption approx. 140 g/m single application Ø up to 18 mm

3) Bonding agent

Pre-wet the concrete substrate sufficiently before applying the bonding agent StoCrete BE Haftbrücke (about 24 h before the first application cycle). The concrete substrate must, however, have dried sufficiently by the time of application so that it only appears slightly damp.

Apply StoCrete BE Haftbrücke using a suitable tool such as a paint brush or brush. Remove any hardened bonding agent by abrasive blasting and renew it. Consumption approx. 1.9 kg/m² (dry material)

4) Reprofiling/PCC screed

After that, apply the already-mixed mortar StoCrete BE Mörtel grob on 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 with water immediately after use; hardened material can only be removed mechanically. Observe environmental protection. |
|---------------------------|---|

| | |
|---|--|
| Notes, 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 (Products) and in the latest issue of the "Technical Data Sheets" manual, in the appendix. |
|---|--|

Delivery

| | |
|------------------|------|
| Packaging | sack |
|------------------|------|

| Article number | Designation | Container |
|----------------|------------------------|-----------|
| 14056-003 | StoCrete BE Haftbrücke | 20 kg bag |

Storage

| | |
|---------------------------|--------------------------|
| Storage conditions | Store in dry conditions. |
|---------------------------|--------------------------|

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Storage life

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

Certificates/approvals

| | |
|-----------------|--|
| P-1004/03 | StoCretec PCC I.1 - System General building inspection test certificate |
| ZERT 9 I 10/604 | StoCretec PCC I.1 - System Certificate of Compliance |

Designation

Product group 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 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.

Technical Data Sheet

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