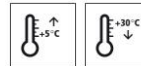


Technical Data Sheet

StoCrete TS 126

Dry-mix sprayed concrete, polymer-modified, cementitious, layer thickness 15 - 60 mm



Characteristics

Area of application

- as concrete repair product for the repair of concrete structures (concrete and reinforced concrete)
- as concrete repair product for concrete of low compressive strength: class A2 for existing concrete in accordance with ZTV-W LB 219 (corresponds to C16/20 in accordance with EN 206)
- especially suitable for hydraulic structures in fresh and sea water

Properties

- polymer-modified, cementitious dry-mix sprayed concrete (SRC)
- strength and deformation properties adapted to substrates of low strength (existing concrete)
- little rebound

Information/notes

- product is in accordance with EN 1504-3
- as a repair system to preserve the stability of concrete members in accordance with ZTV-W LB 219 (SRC)
- building material class A2-s1, d0 in accordance with EN 13501-1
- non-combustible (in accordance with MVVTB)
- The following exposure classes are fulfilled: XALL, XC1-XC4, XBW1-XBW2, XF1-XF4, XW1-XW2, XD1-XD3, XS1-XS3, XM1. The basis is basic testing in accordance with the BAW code of practice for sprayed mortar.
- externally monitored: system A (DIN 18200)

Technical data

Criterion	Standard / test specification	Value/ Unit	Notes
Bulk density of fresh mortar	EN 1015-6	2,1 kg/dm ³	
Maximum particle size		6 mm	
Bond strength	EN 1542	> 0,8 MPa	
Compressive strength	EN 12190	21 MPa	
Flexural strength	TP BE SPCC	6 MPa	
Static modulus of elasticity	EN 13412	18 GPa	

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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 substances that have a separating action, as well as from corrosion-promoting components (e.g. chlorides).

Concrete of at least class A2 for old concrete in accordance with ZTV-W LB 219
Average tensile strength ≥ 0.8 MPa
Tensile strength of the single smallest value ≥ 0.5 MPa

The cleanliness grade of the exposed reinforcing steel following substrate preparation:

Sa 2 in accordance with EN ISO 8501-1 for repair principle R.

Sa 2½ in accordance with EN ISO 8501-1 for repair principle C.

The derusted reinforcing steel must be free from dust and grease.

Preparations

Substrate preparation:

Pre-treat the concrete substrate using a suitable mechanical process in accordance with ZTV-W LB 219.

Open pores and blow-holes sufficiently; remove less solid layers and laitance. Bevel the edges of the areas of spalling under approx. 45°. Derust the exposed reinforcement in accordance with EN ISO 12944-4 up to cleanliness grade Sa 2½ or Sa 2.

Protect adjacent and already-prepared concrete areas from contamination by e.g. spray fog.

Before starting to apply the mortar, pre-wet the substrate in accordance with ZTV-W LB 219.

Application

Application temperature

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

Material preparation

With approved dry spraying machine
Mixing occurs in the spray nozzle.

Consumption

Type of application

Approx. consumption

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per mm of layer thickness (without rebound)	2,1	kg/m ²
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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 with StoCrete TK (for exposed reinforcement)
Please observe: StoCrete TK: 3 applications
- 3) Concrete repair product StoCrete TS 126
Layer thickness: 15 - 60 mm
Higher layer thicknesses are possible due to multi-layer work.

Application

dry spraying, application by machine using the dry-mix process

1) Substrate preparation

After substrate preparation (see above), take suitable measures to protect the interior and exterior concrete areas that will later be reworked by spraying from contamination. Ensure any contamination arising from rebound or spray fog does not stick to the surfaces to be coated, as it impairs the adhesive bond. Take suitable measures such as grit blasting to remove it.

2) Protection against corrosion (for exposed reinforcement)

Derust the reinforcing steel to preparation grade Sa 2½ in accordance with EN ISO 8501-1. Then immediately coat with StoCrete TK grey or light grey in 3 application cycles. Use a paint brush to coat the reinforcing steel evenly and without gaps. The corrosion protection must have hardened on the reinforcing steel to an extent that it cannot be loosened from the reinforcing steel during the next application cycle. (at 23 °C approx 5 hours).
(For details, see the Technical Data Sheet for StoCrete TK)

3) Concrete repair

Convey the dry mortar using a dry spraying machine with rotor or feed chamber and pocket wheel. A machine with at least 7 m³/min. airflow at 3 bar pressure is required as a compressor.

For the dry spraying procedure, the mixing liquid is added to the spray nozzle. Normal nozzle distance: 0.5 - 1.0 m. Rebound cannot be reused and must be disposed of!

4) Surface finishing

In general, leave the surface with a rough spray texture (see DIN 18551), unless otherwise required. If it is necessary to re-work the surface of the SPCC, spray a double layer in order to avoid disrupting the bond with the substrate.

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Layer 1: Apply the structurally necessary total layer thickness, leave the surface with a rough spray texture. Remove coarse unevenness using a grid. Protect the surface from contamination and premature drying depending on the weather.

Layer 2: Plan the second layer as a levelling layer. Apply the levelling layer with the minimum layer thickness. When spraying the levelling layer, the first layer should still be slightly damp and free from substances that have a separating effect.

cracked structure may develop immediately or later on.

It is possible to strike off the surface of the levelling layer using a screed board. If falsework was anchored in the application areas to help comply with the layer thicknesses, remove it after the spraying work is completed. When doing so, take care not to disturb the structure or strip anything from the substrate.

Rework any construction joints if necessary by grit blasting oil-free compressed air to remove soiling, and then wetting the area. This should help result in a homogenous mortar layer after spray application.

The surface does not achieve the quality that is possible with a fine filler. If a surface finish is required, it is possible to rework StoCrete TS 126 manually or by wet-mix process with StoCrete TF 204 or StoCrete TF 200.

5) Curing

Curing procedure:

- a) Cover the surface with sheeting or mats.
- b) Spray the surface with water.
- c) Chemical curing

Curing duration: min. 5 days under normal conditions. Observe the relevant standard DIN 1045-3: 2012-03, the B8 data sheet "Nachbehandlung und Schutz des jungen Betons" (4.2014) published by the Bauberatung Zement, and ZTV-ING (2014/12) (Additional technical terms of contract and guidelines for civil engineering, in German only).

Note:

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

A uniform colour shade of the mortar surface is not possible due to the application method.

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The sheeting must not touch the surface of the mortar.

A key part of curing is adequately wetting the concrete substrate before applying the mortar. The substrate must be saturated with water so that it does not extract mixing water from the fresh mortar that is to be applied.
Observe the explanations in ZTV-W LB 219 (2013) (available in German only).

Recommended dry-mix spraying equipment:
a) Werner Mader, dry-mix spraying machine WM 14

Sales and leasing Germany
Werner Mader GmbH
Bullauer Str. 6 D-64711 Erbach
Tel.: +49 (0) 6062/9442-0, Fax. +49 (0) 6062/9442-29,
e-mail: info@werner-mader.de

b) Clever & Co. dry-mix spraying machine,
Type SOVE used with a high-pressure water pump type SAN 1100 and "Ultra"
high-pressure eddy mixing nozzle

Sales Germany / Europe:
Clever & Co. GmbH
Laubenhof 14-18
45326 Essen
Tel.: +49 (0) 201/ 83574 -0, Fax. +49 (0) 201/ 83574 -444,
e-mail: info@clever-co.de

Cleaning the tools	Clean the spray nozzle with water. Collect cleaning water/rinsing water and dispose of it professionally.		
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.		
Delivery			
	Article number	Name	Container
	08890-001	StoCrete TS 126	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		

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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 Sprayed concrete

GISCODE ZP1

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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