Technical Data Sheet
StoCrete TF 250

Fairing coat, sulphate-resistant, polymer-modified, cementitious, layer thickness of 2-5 mm

Characteristics

Area of application

- as a scratch coat and levelling coat for protecting and repairing concrete structures
- for extremely aggressive water, e.g. in wastewater management, wastewater treatment plants

Properties

- polymer-modified, cementitious concrete repair product (PCC)
- very good adhesive strength on a concrete substrate
- good application overhead
- very good non-sag properties
- provides highly effective protection when exposed to ice and salt
- resistant to water containing sulphuric acid, ammonium, and sulphate in line with exposure class XA3 in accordance with EN 206-1:2001-07

Information/notes

- not suitable for surfaces subject to foot or vehicle traffic
- 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	2,1 kg/dm³	
Maximum particle size		0,8 mm	
Bond strength (28 days)	EN 1542	> 1,5 MPa	
Compressive strength	EN 12190	42 MPa	
Flexural strength	TP BE-PCC	9 MPa	
Static modulus of elasticity	EN 13412	16 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. 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). Open pores and blow-holes sufficiently. Seal any gaps or cavities in the area of the concrete substrate close to the surface, in line with the rules of concrete repair.. 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. 45 minutes at +30 °C: approx. 30 minutes
Mixing ratio	25 kg of material in accordance with the description / 4.0 l of water = 1.0 : 0.16 parts by weight SMF technology: set sight glass to approx. 400 l water / h
Material preparation	Decant water, then add the pre-blended dry mortar. Mix for approx. 2 minutes. Allow to mature for approx. 3 minutes. Remix for approx. 30 seconds. StoSilo Technology: mixing tube / 2-stage mixing shaft Note: 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. Before applying the material, shake it thoroughly in its original container.

Consumption

Type of application	Approx. consumption	
per mm of layer thickness (without rebound)	1,9	kg/m²

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) Scratch coat of StoCrete TF 250 3) Levelling coat with StoCrete TF 250 Layer thickness: 2 - 5 mm
Drying, curing, ready for next coat	At +20 °C and 65 % relative humidity, over-coatable with: Coating OS 4 / 5: after 1 day
Notes, recommendations, special information, miscellaneous	Suitable for application by hand and with Sto silo technology using the dense flow process. 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

Packaging sack

Article number	Name	Container
00460-001	StoCrete TF 250	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.

Certificates/approvals

070605_Kf	Acid resistance testing
071102_Kf	Testing ammonium and sulphate resistance

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Identification	
Product group	Fairing coat
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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