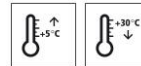


Technical Data Sheet

StoCrete FM

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



Characteristics

Area of application	<ul style="list-style-type: none"> as a scratch coat and levelling coat for protecting and repairing concrete structures
Properties	<ul style="list-style-type: none"> very good adhesive strength on a concrete or concrete repair product substrate good application properties
Information/notes	<ul style="list-style-type: none"> not suitable for surfaces subject to foot or vehicle traffic

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		0.8 mm	
Bond strength (28 days)	EN 1542	> 0.8 MPa	
Compressive strength	EN 12190	30 MPa	
Flexural strength	TP BE-PCC	7 MPa	
Static modulus of elasticity	EN 13412	12 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	<p>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.</p> <p>Damp in accordance with the definition in the DAfStb (German) Repair Guideline 2001-10.</p> <p>Average bond strength 1.3 N/mm² Bond strength lowest single value 0.8 N/mm²</p>
Preparations	<p>Prepare the substrate using a suitable mechanical process, such as abrasive blasting or high-pressure water jets (> 800 bar) in such a way that a solid and permanent bond will be produced between the fairing coat to be applied and the</p>

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concrete, PCC, or SPCC substrates.
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. 35 minutes
At +23°C: approx. 25 minutes
At +30 °C: approx. 15 minutes

Mixing ratio 25 kg of material in accordance with the description / 4.0 l of water = 1.0 : 0.16 parts by weight

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.

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	
	per mm layer thickness	1.8	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) Scratch coat or pre-slurrying with StoCrete FM
- 3) Fairing coat of StoCrete FM

Layer thickness: 2 - 5 mm

Application

1) Substrate preparation
Before applying StoCrete FM, seal any gaps or cavities in the area of the concrete substrate close to the surface in line with the rules of concrete repair.

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Approx. 24 h before applying the product, sufficiently pre-wet the concrete substrate for the first time.
However, when applying the product, the concrete substrate must be dry enough that it appears only slightly damp.

2) Scratch coat:

To close blow-holes and pores, use a plastering trowel to thinly scrape StoCrete FM over the slightly damp concrete.

3) Fairing coat

Apply the PCC fairing coat StoCrete FM on to the fresh scratch coat either manually or by machine. To ensure a good adhesive bond, always work wet on wet.

Smoothing the surface is the final processing stage. Using a sponge, rub out spatula strokes while fresh without applying any additional water.

Layer thickness 2 - 5 mm; consumption: approx. 2.1 kg/m² and mm layer thickness (mixed material)

Manual application:

If applying manually, use a bucket trowel, spatula, and plastering trowel.

Application by machine:

All commercially-available wet spraying devices, such as PFT-N2V and WM Variojet, are suitable for machine application.

4) Curing

Curing procedure:

- a) Cover with film or sheeting
- b) Spray with water
- c) Chemical curing

Under normal conditions, curing must last at least 3 days. Observe the relevant standard DIN 1045-3:2012-03, the B8 data sheet "Nachbehandlung und Schutz des jungen Betons" (4.2014) published by the Verein Deutscher Zementwerke e.V., and ZTV-ING (2014/12) (available in German only).

Note:

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

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

The foil must not touch the surface of the fairing coat.

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A key part of curing is to adequately pre-wet the concrete substrate before application of the fairing coat so that the substrate is water-saturated and the fresh fairing coat does not extract mixing water. The substrate must be "damp", as described in the section on substrate preparation in the DAfStb (German) Repair Guideline.

Drying, curing, ready for next coat	At +20 °C and 65 % relative humidity, over-coatable with: coating OS 4 / 5: after 2 days
Cleaning the tools	Clean with water immediately after use. Hardened material can only be removed mechanically.
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
	00734-002	StoCrete FM	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.		

Identification	
Product group	Fairing coat
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.

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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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