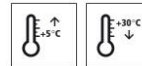


Technical Data Sheet

StoCrete KM

Fairing coat for cosmetic repair, polymer-modified, cementitious, layer thickness of up to 2 mm



Characteristics

Area of application

- as a scratch coat and levelling coat for protecting and repairing concrete structures
- for repairing small damaged areas (up to 10 mm layer thickness)
- for individual texturing

Properties

- polymer-modified, cementitious fairing coat (PCC/RM)
- very good adhesive strength on a concrete or concrete repair product substrate
- good application properties
- well suited to texturing

Information/notes

- 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	2,0 kg/dm ³	
Maximum particle size		0,3 mm	
Bond strength (28 days)	EN 1542	> 1,5 MPa	
Compressive strength	EN 12190	38 MPa	
Flexural strength	TP BE-PCC	8 MPa	
Static modulus of elasticity	EN 13412	14 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.

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Average bond strength 1.3 N/mm²
Bond strength lowest single value 0.8 N/mm²

Preparations

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 concrete, PCC, or SPCC substrates.

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 +23 °C: approx. 40 minutes

Mixing ratio

25 kg of material in accordance with the description / 5.0 l of water = 1.0 : 0.2 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

1,7

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 and repairing small damaged areas with StoCrete KM
 - 3) Thin crack filling with StoCrete KM.
- layer thickness: 0 - 2 mm

Application

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1) Substrate preparation

Before applying StoCrete KM, seal any gaps or cavities in the area of the concrete substrate close to the surface in line with the rules of concrete restoration.

Sufficiently pre-wet the concrete foundation before applying StoCrete KM (about 24 hours before the first application cycle). At the time of application, however, it must be dry to the point that it just appears slightly damp.

2) Scratch coat

Apply StoCrete KM by thinly scraping with a square trowel on the slightly damp concrete to seal surface voids and pores.

3) Thin crack filler

Apply the StoCrete KM PCC thin crack filler either manually or by machine onto the fresh scratch coat. To ensure a good adhesive bond, always work fresh in fresh.

The final processing stage is either smoothing the surface, brush finishing, or texturing the surface using an effect pad made of rubber. Do not apply any additional water.

Layer thickness 0 - 3 mm (partially up to 10 mm); consumption: approx. 2.0 kg/m² and mm layer thickness (mixed material)

Manual application:

If applying manually, use a mason's trowel, spatula, and square trowel.

Application by machine:

StoCretec recommends all commercially-available wet spray devices, such as PFT-N2V and WM Variojet.

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: 2001-07, the B8 data sheet "Nachbehandlung von Beton" on the curing of concrete (11.2002) published by the Bauberatung Zement, and ZTV-ING (2006-07) (Additional technical terms of contract and guidelines for civil engineering).

Note:

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

It is not possible to achieve a uniform colour shade of the mortar surface for

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procedural reasons.

The foil must not touch the surface of the mortar.

A key part of curing is adequately wetting the concrete substrate before applying the mortar, so that the substrate is water-saturated and the fresh mortar does not extract mixing water.

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**Packaging**

sack

Article number**Name****Container**

00429-001

StoCrete KM

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

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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