

Technical Datasheet

CreNovate FCRM-FM

Fiber-reinforced fine mortar for smoothing of walls and ceilings

Characteristics



Area of use

- Certified according to EN 1504-3 - Class R2
- Hand application and wet spraying
- Indoor and outdoor
- Well suited for overhead application
- Filling of gravel pockets and cavities
- Filling over brickwork and render
- Concrete filler on concrete, exposed and aerated concrete
- Levelling of uneven concrete surfaces

Properties

- Low shrinkage
- Paintable after 4 h
- Waterproof
- Fast setting, yet 45 min of working time
- Smooth surface, no need for additional coating


Technical Data

Adhesive tensile strength	≥ 0.8 N/mm ²	EN 1542
Adhesive tensile strength after freeze-thaw	≥ 0.8 N/mm ²	EN 13687-1
Adhesive tensile strength after thunder shower	≥ 0.8 N/mm ²	EN 13687-2
Adhesive tensile strength after dry cycling	≥ 0.8 N/mm ²	EN 13687-4
Compressive strength after 28 d	≥ 25 N/mm ²	EN 12190
Flexural strength after 28 d	≥ 6 N/mm ²	EN 196-1
Capillary water absorption	≤ 0.5 kg/(m ² h ^{0.5})	EN 13057
Behaviour in fire	Class A2-s1, d0	DIN 13501-1
Repair principles	3.1, 3.2, 3.3, 7.1, 7.2	EN 1504-9
Applicable environment conditions	XF1, XF2, XF3, XF4	EN 206 / DIN 1045-2

The provided values represent typical characteristics of the product and should not be interpreted as binding product specifications.

Characteristics

Base	Fiber reinforced polymer cement concrete (PCC)
Consistency	Powder
Number of Components	1
Grain size	≤ 0.5 mm
Wet mortar density	1.7 kg/l
Colour	Grey
Shelf life	Min. 9 months when stored dry, permanent stored < 30 °C and unopened
Packaging	25 kg paper bag with PE inlay
GISCODE	ZP1
Art.-No.	574214

Processing	
Processing temperature (Material, air and substrate)	5 °C to 30 °C
Mixing ratio mortar	5.25 - 5.75 l water per 25 kg bag
Mixing ratio 1 kg	0.21 - 0.23 l water per kg
Mixing time	3 min
Maturing time	3 min
Final mixing time	1 min
Working time*	45 min
Single layer min.	1 mm
Single layer max.	10 mm
Wet mortar consumption per 1 mm thickness	1.7 kg/m ²
Dry mortar consumption per 1 mm thickness	1.4 kg/m ²
Coverage of 25 kg bag	Approx. 17.9 m ² at 1 mm layer thickness
Subsequent work*	
• Painting over after	Approx. 4 h
• Laying tiles after	Approx. 4 h
• Able to bear weight after	Approx. 3 d
Application technique	Manual (Trowel, Spatula), Wet Spray 
Approved machines	See machine list

*At 23 °C - 50 % relative humidity. Higher temperatures decrease the given times, while lower temperatures increase them.

Processing guidelines	
Preparation concrete surface	<ul style="list-style-type: none"> • Must not contain loose parts • Dust free and clean • Check for adequate adhesive tensile strength • Damp surface without puddles (Matt appearance) <ul style="list-style-type: none"> • Pre-wet surface at latest 2 h before work • Keep surface wet
Preparation reinforcement	<ul style="list-style-type: none"> • Any visible corrosion must be removed • Cleaning grade if corrosion protection used: SA 2½ • Basic Cleaning grade: SA 2
Processing indications	<ul style="list-style-type: none"> • Use tap water for mixing with mortar • Add CreNovate FCRM-FM to bucket with water • Mix as long as described under processing and until free of lumps • Never add any substances to the mortar except tap water

	<ul style="list-style-type: none"> • Never add water after mortar has started to set • Only mechanical mixing of mortar • Dropped mortar must be thrown away
Subsequent processing	<ul style="list-style-type: none"> • Mortar must be protected against direct sunlight, strong wind, rain and frost for at least 48 h
Cleaning	<ul style="list-style-type: none"> • After use, clean tools with water immediately • Once cured, the product can only be removed mechanically
Safety / Disposal	For safety information related to transport, storage, handling, and disposal of the product, refer to the current Safety Data Sheet.

Please note that the data and information provided above are guidelines from laboratory and real-life experience and are not binding. This general information describes our products and their use, but due to varied working conditions, not every case can be covered. We recommend conducting tests or consulting us if in doubt. We provide information to outline our products and services, without guaranteeing specific properties or suitability for a particular purpose. Upon publication of a new version, the current Technical Data Sheet becomes invalid.