Technical Datasheet

CreNovate FCRM-RM R2

Light-weight repair mortar

Characteristics

Area of use

- Certified according to EN 1504-3 - Class R2
- Indoor and outdoor
- Overhead application as well as floors and walls
- Repairing of concrete breakouts and holes in concrete structures and balcony slabs
- Filling pipework slots and cavities between concrete and steel frames
- Levelling of stair treads and brickwork
- Can be used as fine mortar

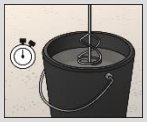
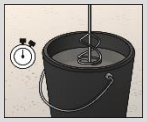
Properties

- Fast setting, walkable after 4 h
- Light-weight
- Waterproof
- 2 in 1: Repair mortar and bonding agent
- Good adhesion to concrete, screed and brickwork

Technical Data		
Adhesive tensile strength	≥ 0.8 N/mm²	EN 1542
Adhesive tensile strength after freeze-thaw	≥ 0.8 N/mm²	EN 13687-1
Adhesive tensile strength after thunder shower	≥ 0.8 N/mm²	EN 13687-2
Adhesive tensile strength after dry cycling	≥ 0.8 N/mm²	EN 13687-4
Compressive strength after 1 d	≥ 10 N/mm²	EN 12190
Compressive strength after 7 d	≥ 20 N/mm²	EN 12190
Compressive strength after 28 d	≥ 25 N/mm²	EN 12190
Capillary water absorption	≤ 0.5 kg/(m²$h^{0,5}$)	EN 13057
Behaviour in fire	Class A1	DIN 13501-1
Repair principles	3.1, 3.2, 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	≤ 1 mm
Wet mortar density	1.8 kg/l
Shelf life	Min. 9 months when stored dry, permanent stored < 30 °C and unopened
Packaging	20 kg paper bag with PE inlay
GISCODE	ZP1
Art.-No.	574216

Processing		
Processing temperature (Material, air and substrate)		5 °C to 25 °C
Mixing ratio mortar		3.3 - 4 l water per 20 kg bag
Mixing ratio 1 kg		0.165 - 0.2 l water per kg
Mixing ratio when used as bonding agent		0.19 - 0.22 l water per kg
Mixing time		3 min
Maturing time		2 min
Final mixing time		1 min
Working time*		30 min
Single layer min.		3 mm
Single layer max.		30 mm
Concrete outbreak		100 mm
Concrete outbreak overhead		80 mm
Wet mortar consumption per 1 mm thickness		1.8 kg/m²
Dry mortar consumption per 1 mm thickness		1.5 kg/m²
Coverage of 20 kg bag		Approx. 2.6 m² at 5 mm layer thickness
Subsequent work*		
• Walkable after		Approx. 4 h
• Able to bear weight after		Approx. 3 d
Application technique		Manual (Trowel, Spatula)

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

Processing guidelines	

Preparation concrete surface	• Must not contain loose parts
	• Dust free and clean
	• Check for adequate adhesive tensile strength
	• Damp surface without puddles (Matt appearance)
	  • Pre-wet surface at latest 2 h before work
	  • Keep surface wet

Preparation reinforcement	• Any visible corrosion must be removed • Cleaning grade if corrosion protection used: SA 2½ • Basic Cleaning grade: SA 2
Processing indications	• Use tap water for mixing with mortar

	• Add CreNovate FCRM-RM R2 to bucket with water • Mix as long as described under processing and until free of lumps • FCRM-RM R2 can also be used as bonding agents • Different mixing ration -> Processing • Never add any substances to the mortar except tap water • Never add water after mortar has started to set • Only mechanical mixing of mortar • Dropped mortar must be thrown away
Subsequent processing	• Mortar must be protected against direct sunlight, strong wind, rain and frost for at least 48 h
Cleaning	• 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.