Technical Datasheet

CreNovate FCRM-BA CP

Corrosion protection for embedded steel reinforcing bars and bonding agent for subsequent concrete repair mortars

Characteristics

Area of use

- Certified according to EN 1504-7
- Indoor and outdoor
- Barrier against heavy chloride contamination
- Increase insufficient concrete coverage

Properties

- Easy to apply
- Instant protection of embedded steel reinforcement
- Low in chromates
- Resealable bucket
- Active corrosion inhibitors for protection of reinforcement
- Light grey colour

Technical Data

ZTV-SIB 90 in accordance with TL BE-PCC		Corrosion creep under the coating starting at the uncoated part of the reinforcement
• Total content of halogen	≤ 0.05 weight %	
• Activating corrosion	≤ 10 µA/cm²	
• Protecting corrosion	≤ 1 mm	
Accelerated weathering		No corrosion, No dissolving, maximum crack width ≤ 0.1 mm
DIN 50017	10 cycles	
DIN 50018	10 cycles	
DIN 50021	120 hours	
Adhesive tensile strength of reinforced steel	Compared with uncoated reinforcement ≥ 80 %	
Repair principles	11.1, 11.2	EN 1504-9

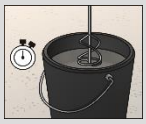
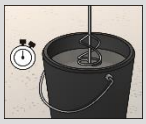
The provided values represent typical characteristics of the product and should not be interpreted as binding product specifications.

Characteristics

Consistency	Powder
Number of Components	1
Grain size	≤ 0.3 mm
Wet mortar density	1.8 kg/l
Colour	Light grey
Shelf life	Min. 12 months when stored dry, permanent stored < 30 °C and unopened
Packaging	15 kg plastic bucket
GISCODE	ZP1
Art.-No.	574213

Processing

Processing temperature (Material, air and substrate)	5 °C to 35 °C

Mixing ratio mortar		2.85 - 3 l water per 15 kg bucket
Mixing ratio 1 kg		0.19 - 0.2 l water per kg
Mixing time		3 min
Maturing time		5 min
Final mixing time		1 min
Working time*		60 min
Wet mortar consumption per 1 mm thickness		1.8 kg/m²
Dry mortar consumption per 1 mm thickness		1.5 kg/m²
Coverage of 15 kg bucket		Approx. 10 m² at 1 mm layer thickness
Consumption as corrosion protection		Ø 8 mm approx. 80 g/m Ø 16 mm approx. 180 g/m
Layer thickness as corrosion protection		2 x approx. 1 mm
Layer thickness as bonding agent		Approx. 1 mm
Application technique		Manual (Brush)

*At 21 °C - 60 % 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-BA CP to bucket with water
	• Mix as long as described under processing and until free of lumps
	• Application as corrosion protection:
	  • Two layers with each approx. 1 mm thickness
	  • Application directly after cleaning of reinforcement
	  • Application of second layer after:
	  • Approx. 30 - 90 min
	  • First layer has matt damp appearance
	  • Waiting time before applying repair mortar:

	• Manual Application: 2 h (at 20 °C) • Wet spraying: 8 h (at 20 °C) • Application as bonding agent: • One layer of approx. 1 mm thickness • Application of repair mortar afterwards wet in wet • 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	• Must be protected from rain until fully cured
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.