

Metric Rebar

Anti-corrosive cement-based protective product for reinforcing bars.

Metric Rebar is a single-component mortar that can be applied with a brush, for the protection of reinforcing bars.



1. Thixotropic
2. EN 1504-7 certified, single layer
3. Active reinforcement protection
4. Passive reinforcement protection, thanks to corrosion inhibitors
5. Excellent adhesion to the metal and concrete
6. Excellent adhesive tension between bar and mortar

Rating 2



- × Regional Mineral $\geq 60\%$
- ✓ Recycled Regional Mineral $\geq 30\%$
- × CO₂ Emission ≤ 250 g/kg
- × VOC Low Emission
- ✓ Recyclable

Areas of application

→ Intended use:

Active anti-corrosive protection and passivation of reinforcement bars in structural repair of reinforced concrete carried out with mortars from the Metric range or traditional cement-based mortars.

Instructions for use

→ Preparation of substrates

Before applying Metric Rebar, it is necessary to remove rust and any other contaminants from the reinforcing bars by brushing (manual or mechanical) or sandblasting.

→ Preparation

Prepare Metric Rebar by mixing the powder using the amount of water indicated on the packaging (we advise using the whole bag). To prepare the mixture, empty the product into a bucket and stir by hand or with a mortar mixer or a drill-type mixing device with a low-rev agitator until a smooth, lump-free green mortar is obtained.

→ Application

Immediately after removing rust and dust, apply Metric Rebar with a brush in a single coat over the entire surface of the reinforcing bars until complete coverage is achieved.

Carry out the repair with mortars from the Metric range on a dry product (approximately 4 – 5 hours at +20 °C).

→ Cleaning

Residual traces of Metric Rebar can be removed from tools and machines using water before the product hardens.

Certificates and marks



Abstract

Supply and laying of an anti-corrosive cement-based protective product, such as Metric Rebar by Kerakoll, for the protection of reinforcing bars, to be applied with a brush in one coat, after demolition of the weakened concrete and cleaning by brushing (manual or mechanical) or sandblasting of the reinforcing steel. GreenBuilding Rating 2, CE-marked and compliant with the performance requirements of Standard EN 1504-7, for the passivation of reinforcing bars; according to Principles as defined by Standard EN 1504-9.

Technical Data compliant with Kerakoll Quality Standard		
Appearance	White powder - green mixture	
Aggregate mineral content	silicate - carbonate	
Apparent volumetric mass	1290 kg/m ³	UEAtc
Grading	0 – 1 mm	EN 12192-1
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity	
Pack	Bags 5 kg	
Mixing water	≈ 1.1 l / 1 x 5 kg bag	
Viscosity of the mixture	≈ 17500 mPa · s (rotor 4 RPM 4)	Brookfield method
Density of the mixture	≈ 1920 kg/m ³	
pH of the mixture	≥ 12.5	
Pot life	≥ 1 hr	
time interval for apply the repair mortar	6 – 24 hrs	
Temperature range for application	from +5 °C to +35 °C	
Application thickness	1 – 1.5 mm	
Coverage	≈ 100 g/m (∅ 10 rod and 1.5 mm thickness)	

Values taken at +21 °C, 60% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

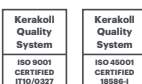
Performance

HIGH-TECH

Performance characteristic	Test Method	Requirements of EN 1504-7	Performance Metric Rebar
Corrosion protection	EN 15183	no corrosion	value exceeded
Shear adhesion	EN 15184	≥ 80% of the value of the uncovered bar	value exceeded
Adhesive bond	EN 1542	None	> 2 MPa (28 days)

Warning

- Product for professional use
- abide by any standards and national regulations
- store the product away from any sources of humidity and out of direct sunlight
- use at temperatures between +5 °C and +35 °C
- do not add binders or additives to the mixture
- do not apply to reinforcement rods with loose surface rust
- do not apply to dirty, loose and flaking surfaces
- do not apply on gypsum, metal or wood
- following application, protect from direct sunlight and wind
- allow the product to cure during the first 24 hours
- if necessary, ask for the safety data sheet
- for any other issues, contact the Kerakoll Worldwide Global Service +39 0536 811 516 - globalservice@kerakoll.com



The Rating classifications refer to the GreenBuilding Rating Manual 2012. This information was last updated in October 2023 (ref. GBR Data Report - 10.23); please note that additions and/or amendments to this information may be made over time by KERAKOLL Spa; for the latest version, see www.kerakoll.com. KERAKOLL SpA shall therefore be liable for the validity, accuracy and updating of information provided only when taken directly from its institutional website. The technical data sheet given here is based on our technical and practical knowledge. As it is not possible for us to directly check the conditions in your building site and the execution of the work, this information represents general indications that do not bind Kerakoll in any way. Therefore, it is advisable to perform a preliminary test to verify the suitability of the product for your purposes.