

MR TRIX R4 G Repair mortar

Classification

R4
EN 1504-3

Repair of concrete and mortar for the passivation, repair and monolithic consolidation of structures in weathered concrete, regulation of surfaces prior to painting or coating.

PRODUCT DESCRIPTION

One-component mortar with high mechanical performance ready for use with the simple addition of clean water, specially designed to passivate, repair and smooth concrete degraded by the corrosion of the reinforcement or carbonation.

USES

- Repair of pillars, columns, cantilevers, beams, balcony fronts, cantilevers, cornices, retaining walls, repairs of existing concrete pavements, both exterior and interior and any deteriorated concrete or mortar.
- Regulation of concrete and mortar surfaces.
- Specific repairs in concrete and mortars. Both on horizontal and vertical surfaces and ceilings.
- Regulation of surfaces prior to the application of paints and coatings given their fine grain size.

SUBSTRATES

The surface of the support can be dry or damp but it must be clean and free of dust, grease, oils, oxides and, in general, of any foreign element that could distort the adherence of the material to the support. Contaminated or damaged concrete areas must be removed until a resistant surface is found, the edges of the repair will be mechanically cut to a depth of at least 5 mm. Exposed rebars will be mechanically cleaned to a minimum of Sa2.

The temperature of the substrate to be applied will be at least + 5 ° C and a maximum of + 30 ° C.

In hot climates the support will become damp, the surface must remain damp and darkened but without water exudation.

RECOMMENDATIONS

- It should be applied between 5° C and 30° C.
- In overheated or very absorbent walls, wet them previously.
- Do not apply in dry winds.
- Do not apply under risk of heavy rain.
- Do not apply on plaster.
- The supports must be clean of dust, grease, old paints.
- On concrete, avoid stripping products (wash them).

APPLICATION

The application of the mortar can be done manually or with a mortar projection machine. Press the product well so that the layers are compact and always respecting that the previous layer has dried before applying the next.

The mortar must be finished with a sponge or float trowel once the product has begun to harden but still maintains the necessary degree of humidity.

TOOL CLEANING

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

TECHNICAL CHARACTERISTICS OF THE PRODUCT

Classification	Class R4 according to European standard EN 1504-3
Granulometry	0-1 mm
Powder density	1,400 ± 100 kg / m ³
Consumption	17 kg of powder per cm of thickness and m _{two}
Job characteristics	
Working temperature	5 to 35°C
Kneading water	5.5-5.75 l / bag
Resting time after kneading	5 minutes
Dough life	45 minutes
Start setting	> 3 hours
End of setting	<6 hours
Minimum thickness per layer	5 mm
Maximum thickness per layer	40 mm
Dough density	2.1 kg / m ³
Density of hardened product	2.1 kg / m ³
Final benefits	
Adhesion to concrete	> 2.0 MPa
Dynamic modulus of elasticity	≥20 GPa
Capillarity	≤0.5 kg.m _{two} .h _{0.5}
Hazardous substances	Compliant with 5.4
Retraction	≤1.3 mm / m
Chloride ion content (minimum requirement <0.05%)	0.01%
Fire resistance	Euroclass A1 / A1fl
Thermal compatibility part 1	≥1.5 MPa
Bond strength after controlled shrinkage / expansion test	≥ 1.5 MPa
Resistance to carbonation	d _k ≤ control concrete type MC (0.45)
Compressive strength	~ 48 MPa (at 28 days)
Flexural strength	~ 8 MPa (at 28 days)

NOTE: The advice is given in good faith and is based on the results obtained from long experience, and from our laboratory tests.

As the application conditions are beyond our control, no responsibility can be accepted by us for an incorrect use of our product.

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