MX-R4 Repair

CE
EN 1504-3

Fiber-reinforced thixotropic shrinkage-compensated mortar for applications on concrete

MX-R4 Repair is a premix based on cement, select aggregates, super-fluidifying additives, shrinkage control agents for both the plastic phase (UNI 8996) and the hardened phase (UNI 8147), and polypropylene fibers. After the addition of water, a thixotropic mortar is obtained, highly adhesive to concrete, brick and iron, durable, and suitable for repairs and structural coverings, without shrinkage.
It is ready to use: just add water to obtain a thixotropic mixture with no bleeding or segregation phenomena. It can be applied by trowel or spray.
For a surface finish that ensures a high aesthetic quality of the intervention, use a suitable finishing coat.

- Freeze/thaw cycle
- Wet supports
- Easy to install
- Fire resistant

THE PRODUCT:

MX-R4 Repair
Fiber-reinforced thixotropic mortar for the restoration of concrete and the preparation of the substrate for the application of structural reinforcements.

FIELDS OF APPLICATION

- Repair of damaged concrete elements;
- Preparation layer for the application of concrete reinforced with composite materials for structural purposes;
- Repair of viaducts, beams and columns for highways, roads and railway lines;
- Filling of rigid joints;
- Structural coverings.

TECHNICAL CHARACTERISTICS

PROPERTIES OF THE MORTAR	MX-R4 Repair
Water per 100 kg of dry premix mortar	15 – 16 liters
Consistency of the mortar (EN 13395-1)	170 +/- 10 mm
Specific weight of fresh mortar (EN 1015-6)	1,70 ± 0,05 g/cc
Volume of fresh mortar per 100 kg of dry premix	about 55 liters
Compression resistance at 1, 7, 28 days (EN12190)	≥ 30; ≥ 37; ≥ 54 MPa
Bending resistance at 1, 7, 28 days (EN 196-1)	≥ 3,5; ≥ 4,5; ≥ 7 MPa
Elastic modulus at 28 days (EN 13412)	≥ 24 GPa
Bond strength to concrete at 28 days (EN 1542)	≥ 2 MPa
Reaction to fire (EN 13501-1)	Euroclass A1
Resistance to sulphates (ASTM C88)	No degradation after 15 cycles
SPECIFICATIONS FOR THE SUPPLY	
Package	25 kg bags on 1,000 kg pallets
Consumption of dry premixed mortar	About 18 Kg/m²/cm