

FIX-REPAR R4

R4 according to EN1504-3

Special pre-dosed thixotropic mortar specially for the structural repair of concrete.



Grey

MAIN FEATURES

- Controlled shrinkage, fibre-reinforced, anti-sagging and fast-setting mortar.
- Very high compressive strength: 46 MPa.
- Physical-mechanical characteristics very similar to the concrete: elasticity, permeability.
- Very high wear resistance.
- Alkaline in nature: protects armour.
- Low capillarity and high impermeability.
- Water vapour permeability.
- Very high resistance to carbonation.

FIELDS OF APPLICATION

- Vertical and horizontal repairs, including counter-gravity.
- Reconstruction of the iron cover layer on structures, balconies, cornices, pillars and beams.
- Repair of gravel pockets or nests.
- Reconstruction of concrete steps, ornamental pieces, stone walls,...
- Excellent as a repairer for window frames, doors, bolt anchors,...
- Due to its very high resistance to wear, it is ideal for: pavements, ramps, canals, bridges,...

HOW TO USE

SUPPORT PREPARATION

The correct, exhaustive and detailed restoration of the substrate is the best guarantee to ensure a long-lasting repair. There are three phases to be carried out:

- 1°. - Remove any remains of deteriorated, unconnected, unsound, disintegrable concrete, remains of dust, paint, wax, release agents,...
- 2°. -To protect the iron reinforcement, remove the thickest remains of rust. Brush and vacuum the dust. Apply a uniform coat of **ANTI-OXID LIQUID** or **FIX-REPAR ANTI-OXID** with the help of a brush, roller or spraying system. **FIX-REPAR ANTI-OXID** is mixed with water only. **FIX-REPAR ANTI-OXID** stabilises the existing rust and protects it from future corrosion (anodic passivation). **FIX-REPAR ANTI-OXID** dries after 2 hours and takes on a light grey colour.
- 3°. -Highly absorbent substrates or exposed to the sun in hot weather should be dampened previously to avoid the rapid loss of water from the repair mortar. If you have used **FIX-REPAR ANTI-OXID** or **ANTI-OXID LIQUID**, allow at least 2 hours to dry before wetting the substrate.

PREPARATION OF THE MIXTURE

- Mix approximately 4.0 litres of water with 25 kg of **FIX-REPAR R4**.
- Use an electric mixer at low rpm to avoid the formation of lumps.

APPLICATION OF THE MIXTURE

- Apply the mortar with a trowel. It is very useful to use a fine trowel to smooth it.
- FIX-REPAR R4** can be applied without using formwork in minimum thicknesses of 10 mm and maximum thicknesses of 40 mm per layer.
- In applications with strong sunlight, dampen the substrate previously, and once the repair has been carried out, protect the surface by creating an artificial shadow and/or dampening the surface periodically.

TECHNICAL DATA

Type of mortar	for fast repair
Granulometry	from 0 to 4 mm
Toxicity	irritates the skin and eyes
Density in powder	1.4 g/cm ³
Mixing water	3.75 L / 25 kg sack
Density of the mixture	2.0 g/cm ³
Temperature of application	from +5°C to +35°C
Pot life	30 - 60 minutes
Chloride ion content	< 0.05%
Can be walked on after	24 hours
Thickness of layer	10 - 40 mm
Resistance to compression	≥ 45.0 MPa
Adhesion	≥ 2.0 MPa
Capillary absorption	< 0.5 kg/m ² *h ^{0.5}
Elasticity module	≥ 20 GPa
Consumption	19 kg/m ² -cm thickness
Estimated expiration	12 months
Presentation	25 kg

