

**Description**

Betonfix KIMIFER is a single-component re-alkalizing, anti-corrosive hydraulic mortar for reinforcing bars.

It is composed of a synergic system of corrosion inhibitors for high protection against the corrosion of iron. Betonfix KIMIFER is non-toxic (chrome-free).

Betonfix KIMIFER is strongly adhesive to concrete and iron surfaces, has high alkaline properties and excellent resistance to water and harmful gases in the atmosphere. Its rapid setting reduces times of laying when restoring reinforced concrete structures with visible reinforcements.

Betonfix meets the principles set out in EN 1504-9 ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and conformity assessment. General principles for the use of products and systems") and is CE marked according to the requirements of UNI EN 1504-7 for protection against corrosion of reinforcement.

**Uses**

Betonfix KIMIFER is used as an anti-corrosive protection for visible reinforcing bars to restore deteriorated reinforced concrete structures together with non-shrink Betonfix mortars.

Characteristics	Value
Appearance	Powder
Colour	Dark orange
Apparent specific weight UNI 9446	1,2 ± 0,1 g/cm <sup>3</sup>
pH of mixture	12 ± 0,5
Minimum application temperature	+2 °C
Flammability	no
Toxicity	no

Caratteristica	Limiti EN 1504-7	Valore tipico
Corrosion protection test, UNE-EN 15183:2007	The test is considered to have been passed if the coated zones of the steels are free of corrosion and if rust creep at the ground plate edge < 1 mm.	OK
Shear adhesion of coated steel to concrete, UNE-EN 15184:2008	The test is considered to have been passed if the bond stress determined with the coated bars is in each case at least 80% of the reference bond stress determined for the uncoated bars.	OK (82,6%)
Determination of glass transition temperatures, UNE-EN 12614:2006	None	123,8 °C

**Packaging**

5 Kg.

**Application**

Betonfix KIMIFER is ready-to-use on the addition of drinking water. Where metal reinforcements are visible, remove any adjoining concrete; the reinforcements must be white iron by sanding, or by using a needle gun or a mechanical brush. Mix Betonfix KIMIFER with drinking water until you obtain a dense but brushable consistency (about 25% in weight). Then apply two coats of the product and wait for the first coat to dry (30 minutes at +20 °C). With the second coat the concrete adjacent to the metal reinforcements will be covered, ready for the next restoration with non-shrink Betonfix mortars, which must be applied "wet on wet".

**Coverage**

Approximately 140 gr/ml per rod with a diameter of 14 mm for a total thickness of 2 mm. Approximately 400 gr/m<sup>2</sup> per adhesive bridge on concrete.

**Storage**

Protect from humidity. Store the product in a dry, sheltered place. Stored in these conditions and in unopened containers, the product remains stable for 12 months.

**Warning**

Product for professional use. Do not remix by adding water to the product when it has already started to set. Do not add concrete, inert materials, additives or other Betonfix mortars. Before using, check bags have not been damaged, and do not use the product if there are any lumps. Use the entire contents once the bag has been opened. Do not apply to sunny surfaces, at temperatures below +2 °C or above +35 °C. The technical specifications and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product. It is the customer's responsibility to check that this data sheet is still effective and has not been replaced with a more recent version, and that the product is suitable for the intended use.