



Fibrocem Rapido

Thixotropic mortar with rapid setting for the restoration of concrete.



Fields of application:

- for rapidly restoring degraded concrete;
- for rapidly rebuilding the iron covering layer in reinforced concrete decayed due to reinforcing iron oxidation (previously treat reinforcing irons with Ferrocem);

- for rapidly filling holes in screeds, industrial floors, etc;
- for promptly restoring pillars, beams, treads, risers, edges, etc;
- professional use only.

Characteristics:

Fibrocem Rapido is a mortar made of selected aggregates, 52.5 Portland cement in class I, fibers and special polymer-acrylic additives able to guarantee a nonseparable thixotropic mixture with compensated shrinkage, that can reach high initial and final mechanical strength with a perfect adhesion on surfaces in concrete and reinforced concrete. **Fibrocem Rapido** is formulated for ensuring a long workability time and lasting solutions in the most delicate conditions. This product is indicated for indoor and outdoor civil, commercial and industrial applications.

Application:

Fibrocem Rapido must be mixed with 4.5 l of water every 25 kg bag with a concrete mixer or a low speed stirrer, till getting a smooth mixture free of lumps.

Do not add other hydraulic binders or aggregates. Apply the product with a smooth spatula or trowel. If several coats must be overlapped, apply the product before the previous coat has set, treating the degraded reinforcing irons with **Ferrocem**, anti-rust passivating product. Smoothing can be made with **Raso Crete**.

Preparation:

carefully clean the surface to recondition, removing any dust, grease, or paint and remove all the parts not attached firmly in place until the base is a completely solid layer. Clean the reabs by sanding or careful brushing, removing all trace of rust and fragments that are coming away. Roughen up the base considerably and soak with plenty of water, and then wait for the excess water to evaporate.

Quality and Environmental Standards:

Fibrocem Rapido undergoes constant, careful testing at our laboratories, in compliance with the legislation in force UNI EN ISO 9001/2015.

	Opera Srl Via degli Scavi 19/21 47122 Forlì - Italy
DOP-IT-01-038 FIBROCEM RAPIDO EN 1504-3:2005	
PCC hydraulic mortar modified with the addition of polymeric additives for the structural repair of concrete	
Resistance to compression	Class R3
Fire reaction	A1
Adhesion	≥ 1,5 MPa
Resistance to carbonation	Test passed
Content of chloride ions	≤ 0,05 %
Elastic modulus	≥ 15 GPa
Capillary absorption and water permeability	≤ 0,5 kg * m ⁻² * h ^{-0,5}
Thermal compatibility part I:	≥ 1,5 MPa
Release of harmful substances	See Safety data sheet

Characteristics	Application methods	Consumption
<p>One-component Mixture pot life: about 20 minutes Mixture water: about 4.0 l every bag Min. coat thickness 1 cm Max. coat thickness: 2 cm Resistance to compression after 28 days: 29.9 N/m² Resistance to flexure after 28 days: 5.5 N/m² Working temperature: from -30° to +90°a Granulometry: 1.2 mm</p>	<p>Trowel Smooth trowel Spraying</p>	<p>19 kg/m² every cm of thickness</p>
		Storage
		<p>Shelf life of 12 months in the original packages and in a fresh, dry place</p>

Code	Product	Form and color	Packages	Pallet
404325	Fibrocem Rapido	Grey	25 kg	1500 kg

Warning:

- do not apply in temperatures below +5°C or above +35°C;
- do not apply to concrete surfaces that are particularly smooth; roughen up the surface prior to use;
- after application, ensure the area re-conditioned sets properly by making sure the water does not evaporate too fast;
- do not apply to frozen bases or those at risk of freezing during the 24 hours following application;
- do not use with plastering machines.


Technical and application specifications

Hazard classification as per Directive 99/45/EC:	irritant
Specific weight of mixture:	2 g/cm³
Pot life:	approx. 5 minutes
Complete setting time:	approx. 20 minutes
Application temperature:	from +5°C to +35°C
Mixing water ratio:	16-17% (weight)-i.e. approx. 3.2 l per 25 kg bag
Mixture pH:	over 12
Minimum coat thickness:	1 cm
Maximum coat thickness:	2 cm

FINAL PERFORMANCE

Compression resistance after 3 hours:	> 10.5 N/mm²
Compression resistance after 7 days:	> 25.4 N/mm²
Compression resistance after 28 days:	> 29.9 N/mm²
Bending resistance after 3 hours:	> 2.4 N/mm²
Bending resistance after 7 days:	> 4.7 N/mm²
Bending resistance after 28 days:	> 5.5 N/mm²
Adhesion to concrete after 7 days:	> 1 N/mm²
Room/ambient temperature:	from -30°C to +90°C
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.