

FIBRALCHOC® FIN CLAIR

FINE CLEAR FIBROUS REPAIR MORTAR

Specials mortars



Update on 17/10/2024

Properties

FIBRALCHOC® FIN CLAIR is a mortar comprising mineral fillers and additives, reinforced by synthetic fibers, for reshaping and surface repairs of concretes. Mixing produces a light grey thixotropic mortar. Repair mortar Class R3 compliant with standard NF EN 1504-3, it is suitable for exposure classes XC4, XF1, and XA1 defined by concrete standard NF EN 206/CN.

ADVANTAGES:

- High adhesion and mechanical strength
- Compatible with all types of dry concrete.
- Alkaline, therefore ensures maximum protection of concrete reinforcements.
- Resistance to polluting atmospheres and carbonation,
- Insensitivity to freeze-thaw cycles with de-icing salts,
- Fast drying: can be covered with a coating after a few days,
- Perfect finish: very fine and regular appearance,
- Cohesion and reduction of shrinkage effects improved by the presence of fibers,
- Excellent adhesion on most supports,
- Suitable for pneumatic transport and heavy traffic,
- Passivating mortar for steels (tested from 10 mm thickness).

Domains of application

NOTE:

FIBRALCHOC® FIN CLAIR is intended for one-off repairs. As such, it does not allow the creation of screeds. Please contact us for this application.

- On floors, walls or ceilings: inside or outside,
- Repair requiring a fine grain and a light colour,
- Repair and filling of spalling, stair nosings, holes, grooves, cores, posts, balusters, sills, acroteria, edge beams, repair of joint lips, beam angles,
- Levelling of undersides of bridge decks, new or old interior floors before laying coverings,
- Joints of pre-walls with TECHNALATEX® for bonding render

Characteristics

Appearance	Grey Powder
Sand size	0 to 0,5 mm
Density of the mixed mortar	2,1
pH of the mixed product	13
Application temperatures (support and environment)	+ 5°C à + 35°C
Application thickness	2 to 60 mm
Duration of use at 20°C	7 days

The above values are orders of magnitude from laboratory tests. They can be significantly modified by the implementation conditions

Use

Preparation of the supports:

FIBRALCHOC® FIN CLAIR is not intended for application on plaster or painted surfaces but for cement-based supports: concrete, cement coatings, masonry elements.

The support must be hard, sound, cohesive, clean and previously moistened to the limit (but without puddles during application).

Probe all the surfaces to be repaired with a hammer to detect non-adherent areas. Remove the defective parts by pricking and leave clean edges on the edges of the repair.

FIBRALCHOC® FIN CLAIR is applied to rough supports or those made rough by mechanical action. Completely remove the oxidized reinforcements and possibly push back the reinforcements too much on the surface.

Remove the rust from the irons with a wire brush or by sandblasting, then dust carefully. Apply RAVALCHOC® PROTECTOR AC to protect the reinforcements before installing FIBRALCHOC® FIN CLAIR.

Do not apply to frozen surfaces or those with a risk of frost within 24 hours. Surfaces can be made respecting existing joints.

Implementation instructions:

Partial mixing: it is advisable to re-homogenize the product in a trough or on a clean, dry and non-absorbent floor.

This will avoid differences in mechanical characteristics and colours between the beginning and the end of the bag. When applying at temperatures above + 35°C, store FIBRALCHOC® FIN CLAIR in a temperate room so that the temperature of the fresh mixture is around + 20°C to + 25°C. In cold weather, it is advisable to mix with lukewarm water (+ 25°C) to obtain rapid hardening.

FIBRALCHOC® FIN CLAIR can withstand rain 6 hours after its application (at + 20°C).

Apply using traditional methods with a float or trowel, firmly pressing the mortar.

If necessary, return to the surface with a trowel or expanded polystyrene as soon as the mortar begins to stretch.

FIBRALCHOC® FIN CLAIR can also be applied mechanically by spraying at a suitable consistency.

Mixing/mixing:

The quantity of water will be determined by the user according to the consistency required for the needs. After mixing, it is possible, within reasonable time limits, to add either powder or water in order to adjust the consistency as desired without affecting the characteristics of the product.

Mix FIBRALCHOC® FIN CLAIR with a trowel or using a mixer at slow speed (500 rpm) with 3.6 to 4.8 liters of water per bag.

On porous concrete, moisten and apply with a brush a thick slip of FIBRALCHOC® FIN CLAIR mixed with one litre of clean water for 5 kg of powder. Apply FIBRALCHOC® FIN CLAIR on the fresh slip, firmly pressing the mortar. Finish the felting using a polystyrene trowel.

Subsequent coatings: Mineral coatings, thick and semi-thick plastic coatings, anti-carbonation coatings.

RECOMMENDATIONS:

For corners, edges over long lengths: form using smooth panels or rulers. FIBRALCHOC® FIN CLAIR can remain bare and visible or receive a coating directly.

Do not apply in pouring rain or on submerged surfaces. In case of high heat, take the usual precautions. Never add adjuvants or other additives.

Performances

Adhesion to sandblasted concrete according to NF EN 1542 > 1.5 MPa.

Mechanical strength values on 4x4x16 at 20°C in MPa (dosage : 3,88 L of water for a 25 kg bag) :

	24 h	7 days	28 days
Compressive strength	27,3	44,8	54,6
Flexural strength	4,4	6,1	6,1

Laboratory test.

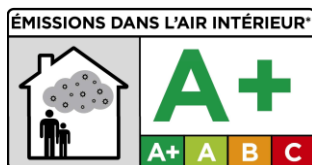
Dosage

Approximately 2 kg of mixed product / mm of thickness / m².

Depends on the nature and roughness of the support.

Safety

Refer to the safety data sheet.



**Information on the level of emissions of volatile substances into indoor air presenting a risk of toxicity by inhalation, on a class scale ranging from A+ (very low emissions) to C (high emissions).*

Storage

1 year in unopened original packaging, protected from humidity.

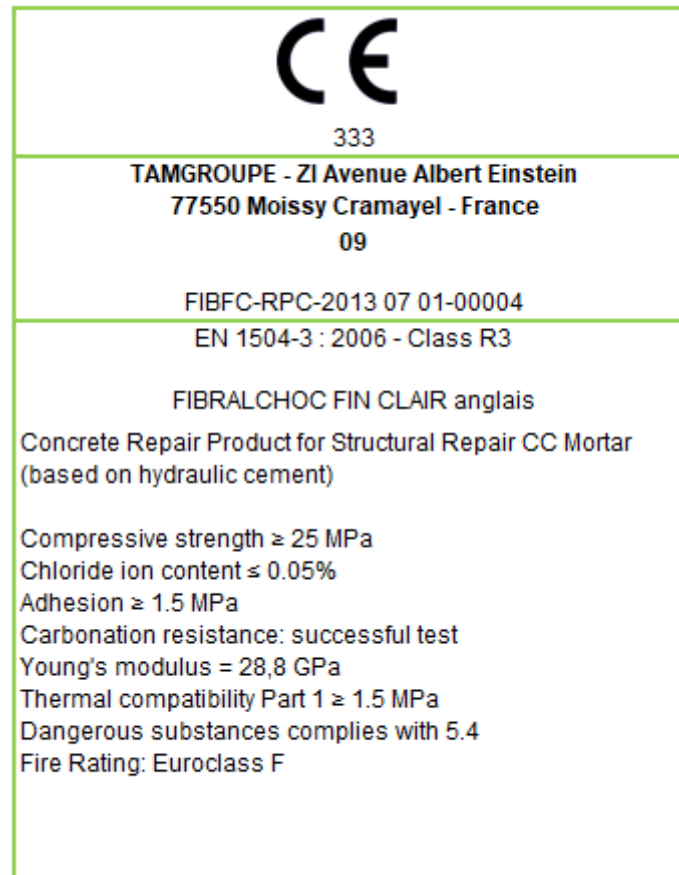
Packaging

25 kg bag

Pallet of 1400 kg, i.e. 56 bags

The data sheets are written in French. The English version is provided for informational purposes. In case of conflict, only the French version shall prevail between the parties.

CE marking applies to the European Economic Area (EEA)



The information provided in this document is for guidance only and reflects our current knowledge. We shall not be responsible or liable for any improper or inappropriate use of our products.

Given the wide range of possible uses, our recommendations do not exempt users from carrying out their own tests. Our laboratory and technical department will be happy to provide you with any information you may require.

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