



UNI EN 1504-3
CLASSE R3

MEGAGROUT FIBRE



ABOUT THE PRODUCT

MegagROUT fibre is a controlled shrinkage cementitious mortar composed of high resistance hydraulic binders, siliceous aggregates, special additives and synthetic fibers. Mixed with water, it turns into a mortar of excellent workability with thixotropic effect, applicable in thick layers, even vertically, without casting. It has high characteristics of adhesion to old concrete, good impermeability to water and resistance to sulphates.

MegagROUT fibre used in combination with alkali resistant fiberglass mesh:

- consolidates the walls, avoids cracks and detachments of the mortar itself;
- increases the resistance to overturning of the walls under the action of seismic horizontal forces;
- connects the infill walls with the structural elements in concrete;
- limits the floor shattering.

Once hardened, it has good flexural and compressive strenghts.

Elastic modulus, thermal expansion coefficient similar to a medium quality concrete. A thickness of 2 cm of hardened product presents a resistance to the diffusion of CO_2 equal to the thickness of 15 cm of a class C28/35 concrete.

FEATURES

It is used for the restoration of degraded concrete, such as repairs to the edges of beams and pillars, cornices, fronts of balconies, steps, damaged parapets due to the oxidation of reinforcement rods, regularization of gravel nests, reconstruction of the covering structure of concrete structures armed, filling of rigid joints, etc....

SPECIFICATION CLAUSE

Restoration of degraded concrete works, such as repair of edges of beams and pillars, cornices, fronts of balconies, damaged steps and parapets, by trowel or spray application of thixotropic, fiber-reinforced cement mortar with controlled shrinkage with a consumption of 19 kg/m^2 per cm of thickness. It can be used with alkali-resistant fiberglass mesh. If you use a fiberglass mesh, first apply a layer of malta megagROUT fibre 8 (min 5mm) on the substrate already prepared and then incorporate the fiberglasses mesh in the mortar being careful to leave a overlap of 10-15 cm in the terminal parts. The product, with a maximum grain size of 2.5 mm, has a compressive strenght of 28 days equal to 40 N/mm^2 and is applicable in thickness up to 4 cm per coat.

HOW TO USE

Pour 3,7-4.2 liters of clean water into a container or a cement mixer for each 25 kg bag of MEGAGROUT FIBRE and mix for about 5 minutes to obtain a homogeneous mixture free of lumps. The application can be carried out manually with a trowel or spatula, or by spraying with a suitable piston or auger plastering machine. This mixture remains workable for about 1 hour with a temperature of 23° . The minimum applicable thickness for layer is about 10 mm, the maximum 40mm. In the event it is necessary to apply a second straty, carry out the operation before the previous one has completed the intake. However don't exceed 4 hours. To obtain a good surface finishing, use a trowel or a sponge.

PREPARATION OF THE SUBSTRATE

Remove carefully all deteriorated or peeling concrete with a chisel, until you reach the solid and consistent substrate. Clean the concrete and reinforcements rods by mechanical means (hydro-sandblasting or brushing) up to the removal of the existing oxide on the rods, of the surface cement laitance and any other trace of dirty. Apply Megafer on the rebars with a brush. As soon as the product is completely hardened, wet the area to be restored with water, eliminating any stagnation at the beginning of the work.



PACKAGING AND STORAGE

MEGAGROUT FBRE is supplied in polythene-lined bags of 25 kg on pallets, protected with an extensible hood. It is recommended to keep the product in a dry and sheltered place. It keeps for 3 months at least in the original closed.