



# MEGAFAER



## ABOUT THE PRODUCT

MEGAFAER is a two-component cement mortar, composed of a powder based on hydraulic binders and special additives (component A) and a liquid based on polymers and migratory corrosion inhibitors (component B), to be mixed together at the time of use, without adding water or other products.

COMPLIANCE WITH THE STANDARD DIN SS PART 4 SA 2 1/2

### FEATURES

Megafer is used for the protection of reinforcement rods, for the reconstruction of degraded concrete, with non-shrink mortars or with cement mortars added with synthetic resin latexes. Megafer can be used as an adhesion bridge for recovery mortars or between new and old concrete. Its main features are:

- excellent adhesion to the support and repair mortar
- high impermeability to the water and aggressive atmospheric gases (in fact 2mm of hardened Megafer presents the same resistance to the diffusion of Co<sub>2</sub> of a class Rck 35 concrete of the thickness of 320 cm.
- high deformability
- excellent anticorrosive action
- high passivating alkalinity

- ▶ be restored with water, eliminating any stagnation at the beginning of the work.

### WORKING

Megafer is formulated with two components to be mixed carefully at the time of use. For the preparation of the mixture pour the liquid into a clean container and add the powder while stirring. Mix the two components to obtain a homogeneous mixture free of lumps. This mixture must be applied within 60 minutes since its preparation. Apply Megafer on the iron, with a brush, at least in 2 coats. The second coat must be applied approximately 2 hours after the previous one and, in any case, within 24 hours. It's important to make sure the entire surface is completely covered. After the 2 coats the total thickness will be 2 cm. Megafer improves greatly the adhesion of mortars to iron. After about 4- 5 hours it's possible to apply the repair mortar. (Megagrout fibre).

#### 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 ▶

### SPECIFICATIONS CLAUSE

Alkalinizing treatment for the protection and passivation of reinforcement rods, cleaned from deteriorated concrete, greasy substances and powder with a brush application in 2 coats of two component anticorrosive cement mortar.

The product will be characterized:

- Mixing ratio: component A : component B = 3:1
- pH of the mixture = 12,8
- Adhesion to concrete at 28 days > 2,9 MPa
- Adhesion to cleaned steel at 28 days > 1,9 MPa
- Yield: about 150 °C per linear meter on round bar diameter 10 mm.

### PACKAGING AND STORAGE

Megafer is supplied in plastic bags of 4 kg, containing 2 packs of 2 kg. The powder component is in 1.5 kg plastic bags and the liquid one in 0,5 kg plastic bottles- Keep the product in a dry and sheltered place with a temperature not lower than 5 kg.

Under these conditions its stability is at least 12 months.

## FOR PROFESSIONALS

	Component A	Component B
Compliance with the standard	DIN 55 928 Part 4 Sa 2½	DIN 55 928 Part 4 Sa 2½
Type	Powder	Liquid
Colour	Grey	Grey - Green
Specific weight	1,5 Kg/liter	1,04 Kg/liter
pH		10
Solid residue	100 %	30 %
Storage in a dry place	12 months in the original packaging	
Hazard classification (directive 1999/45/CE)	irritating	nothing
consult the paragraph SAFETY INSTRUCTIONS and the information on the package and the safety data sheet		

## FINAL PERFORMANCE

Mixture colour	Grey - Green	
Mixture ratio	Component A : Component B = 3:1	
Mixture texture	plastic	
Mixture ph	12,8	
Mixture duration	60 minutes	
Mixture volume mass	1.680 kg/m <sup>3</sup>	
Waiting time before applying the restoration mortar	4 - 5 hours	
Adhesion to concrete after 28 days	> 2,9 MPa	UNI 9532
Adhesion to steel after 28 days	> 1,9 MPa	
Application temperature	From + 5 °C to + 35 °C	

The times shown in the above table referred to 20° C and 60% relative humidity are longer when the temperature is lower and shorter when the temperature is higher.

WARNING - The above mentioned instructions and rules - although matching our experience - are merely indicative and must be confirmed by thorough practical applications. Therefore, before using this product, the prospective user must establish whether it is suitable for the planned use and he/she will take full responsibility for its use.

### SPECIAL WARNINGS

PRODUCT FOR PROFESSIONAL USE. After application protect from sun, frost and rain, until completely hardened; for more information or particular uses, please consult our office.