HERAGROUT FER

One–component, passivating and anticorrosive cementitious mortar for the protection of reinforcing rods. Adhesion promoter for mortars used in concrete recovery.

Prodotto conforme alla Norma CE EN 1504-7

ALTA ADESIONE

RESISTE AL GELO

APPLICABILE A PENNELLO

MONOCOMPONENTE

TECHNICAL FEATURES

HERAGROUT FER is a premixed mortar based on hydraulic binders with high mechanical resistance, with the addition of special additives that inhibit the corrosion of reinforcing bars, synthetic resins and silica fillers, mixed together according to the quality standards of the **HERAKEM** laboratory. Once hardened, it is impermeable to water, aggressive atmospheric gases and saline fog. **HERAGROUT FER** combines excellent adhesion to reinforcing rods with a multiple anticorrosive function thanks to high basicity and impermeability combined with special anticorrosive additives. The high workability with thixotropic effect even when fluid, allows easy application even vertically, without dripping. **HERAGROUT FER** constitutes an anticorrosive base on reinforcing rods in concrete restoration processes with non-shrinkage mortars such as **HERAGROUT MONO** and **HERAGROUT RCC**.

FIELD OF APPLICATION

HERAGROUT FER is used as a protection against corrosion of reinforcing bars and, when applied fresh on fresh, it can also be used as an adhesion promoter for repair mortars and in casting joints. **HERAGROUT FER** has a passivating and re–alkalizing effect on the reinforcing bars and must be applied before restoring the concrete elements, even if reinforced, with the anti–shrinkage mortars of the line **HERAGROUT**, to reconstruct missing parts of beams or pillars to the concrete cover layer, cornices, balcony fronts, steps and parapets damaged by the oxidation of the reinforcing bars, regularization of the walls of diaphragms and tunnels, etc.

PREPARATION OF THE SUBSTRATE

The reinforcing rods must be freed from the surrounding deteriorated, already carbonated or flaking concrete, from incoherent materials, greases, oils and rust. The irons must be cleaned down to the live metal by sandblasting or with an iron brush. In the case of reinforcing rods significantly damaged by corrosion, with consequent reduction of the section, it is necessary to integrate them with additional rods. Reinforcements added or replaced must also be prepared with the same method and passivated.

MIX PREPARATION

HERAGROUT FER is prepared by mixing approximately 1.1 liters of clean water per 5 kg of powder until a homogeneous and lump–free mixture is obtained. The mixing can be carried out manually or, preferably, with a mechanical stirrer. To avoid loss of product performance, it is essential to follow the indicated mixing ratio. The mixture thus obtained must rest for a few minutes, after which, after rapid remixing, it can be applied. **HERAGROUT FER** must be used within 1 hour of mixing.

APPLICATION

Apply the **HERAGROUT FER** passivating anticorrosive mortar in at least two coats, accurately, using a brush. The second coat must be applied at least 2 hours after the first, but within the following 24 hours, making sure that the entire surface of the irons is completely covered and the total thickness of the two coats is not less than 2 mm. Wait until the last coat has sufficiently hardened (about 6 hours, but within 24 hours), before applying the anti–shrinkage mortars of the **HERAGROUT** range.
If **HERAGROUT FER** is applied as an adhesion promoter for mortars, the “fresh on fresh” technique must be used.

CLEANING

Wash hands and equipment with plenty of clean water before the mortar starts to set; subsequently cleaning will be difficult.

ITEM OF SPECIFICATIONS

Protective, passivating and re–alkalizing treatment of reinforcing bars, stripped from previous demolition of the concrete cover and sandblasting or mechanical cleaning, by applying two coats of single–component anticorrosive cement mortar compliant with European standard EN 1504 by brush –7 type **HERAGROUT FER** by **HERAKEM SRL**, in thicknesses of 1 mm per coat.

WARNINGS

- Do not add water to the mixture which is starting to set.
- Do not add with sand, cement or other components.
- Apply immediately after sandblasting the irons.
- Do not apply at temperatures below + 5 ° C or above + 35 ° C.
- When **HERAGROUT FER** is used as an adhesion promoter for repair mortars, the subsequent top-up with mortar must be carried out within the following two hours (fresh on fresh).

TECHNICAL DATA *(at +22±1°C and 55±5% R.H.)

Appearance	powder	Pot life of the mix	60 minutes
Storage	12 months in original packaging	Waiting time for mortar application	6 hours
Flammability	not flammable	Waiting time 1st and 2nd coat	1÷2 hours (depending on the temperatures)
Customs heading	38245090	Adhesion to concrete	> 2 N/mm²
Application temperature	from +5°C to + 35°C	Adhesion to sandblasted steel	> 2 N/mm²
Mixing ratio	1,0-1,2 LT of water per 5 kg of product		

Consumption	**150 gr/m linear with rod diameter 10 mm**	**Packaging**	**5 kg drum**

PRODUCT FOR PROFESSIONAL USE ONLY

All the data and indications given in this technical data sheet, although resulting from laboratory tests carried out and from our direct application experiences, due to the infinite number of variables linked to the construction site conditions, are to be considered, in any case, purely indicative. Therefore, before applying the product, the user is required to establish whether it is suitable for the use envisaged by him, in the specific hygrothermal and application conditions foreseen at the time of use and, in any case, he assumes all responsibility for it. We are not liable for damage to people or things deriving from improper use of the product. We reserve the right to modify the data contained therein as a result of improvements and technical progress.