



HERAGROUT MONO

Fiber-reinforced, quick-setting, thixotropic cementitious mortar for smoothing and non-structural repair of concrete surfaces. Can be used indoors and outdoors, both on the wall and on the floor, in thicknesses from 3 to 35 mm



TECHNICAL FEATURES

HERAGROUT MONO is a special one-component, quick-setting, thixotropic and fiber-reinforced mortar, composed of a mixture of hydraulic binders with high mechanical resistance, selected siliceous and carbonate mineral fillers, synthetic polymers and special additives mixed together according to the quality standards of the **HERAKEM** laboratory.

Its composition guarantees perfect adhesion on all normal substrates used in construction, hardening quickly, even at high thicknesses, without undergoing shrinkage and without producing cracks. Equipped with low water permeability, it protects the substrate from the aggression of atmospheric pollutants. After curing it creates an alkaline environment protecting the reinforcing rods from oxidation. **HERAGROUT MONO** allows repairs in a single coat with thicknesses from 3 mm up to 35 mm, hardening rapidly and developing mechanical strengths such as to allow the subsequent laying of ceramic, stone, paint and waterproofing coatings within a short time.

FIELD OF APPLICATION

HERAGROUT MONO has been designed to perform non-structural restoration and smoothing of degraded parts and concrete surfaces, both horizontal and vertical, indoors or outdoors.

HERAGROUT MONO can be successfully used for the volumetric reconstruction of the concrete cover of elements damaged by the oxidation of the reinforcing bars, such as front edges, cornices or moldings; it is suitable for smoothing surface defects in concrete castings, such as the presence of gravel nests, spacer holes, casting joints, or for smoothing concrete screeds, concrete slabs, old properly treated floors, etc.. **HERAGROUT MONO** can also be used for the construction or restoration of the slopes of terraces and balconies and is indicated for the leveling of reinforced concrete surfaces (out of plumb) in swimming pools, to make them suitable, in a short time, for waterproofing with **HERALASTIC CEM** sheaths. or **NANOLASTIC 1K** and the subsequent laying of ceramic or mosaic.

PREPARATION OF THE SUBSTRATE

The substrates must be compact and rough, free from dust and removable parts and free from oils, greases, remains of paint or adhesives. The concrete surfaces must also be cured, cleaned of release agents and cement laitance and possibly treated with **HERALAX GRIP**. It is always necessary to moisten the absorbent surfaces, especially if exposed directly to the sun's rays or the wind, or when the product is applied in low thicknesses. Gypsum substrates and anhydrite screeds must be perfectly dry, sufficiently hard and free of dust and necessarily treated with the **HERALAX AC** synthetic primer. Smooth and not very absorbent or totally non-absorbent substrates, such as for example ceramic tiles, smooth concrete, must be prepared by cleaning, mechanical abrasion and subsequent application of **HERALAX GRIP**. In the case of cortical restoration of degraded concrete, it is recommended to carefully clean the reinforcing rods, eliminating all traces of rust and apply a uniform layer of **HERAGROUT FER** anticorrosive mortar by brush; then apply the **HERAGROUT MONO** mortar, taking care not to leave empty spaces.

MIX PREPARATION

Mix with about 18% clean, fresh water, slowly adding the powder to the liquid. Mix with a low-speed mixer to prevent the mixture from engulfing air, until a homogeneous and lump-free mixture is obtained. The mixture thus obtained is workable for about 20 * minutes. Do not add other aggregates or binders, do not try to restore the workability of the product that is hardening by adding water.

APPLICATION

For localized restorations, the application can be carried out with a trowel. For larger surfaces, apply with a smooth (American) steel trowel, taking care to press the mortar onto the substrate to ensure perfect contact. For a good application, it is advisable to apply a first coat to zero on the wet substrate and then, without waiting, apply the necessary layer to level and regularize the substrate, up to a maximum thickness of 35 mm in a single coat. Thicknesses greater than the maximum indicated must be made with subsequent layers when the mortar has already begun to set (dust-free). A good surface finish can be obtained by working the still fresh surface with a trowel.

CLEANING

The tools used can be cleaned with water before the mortar hardens; subsequently, cleaning can only take place by mechanical removal.



ITEM OF SPECIFICATIONS

Non-structural restoration and quick leveling of concrete, by means of application, on a suitably roughened and water-saturated substrate, of one-component thixotropic cementitious mortar, such as **HERAGROUT MONO** by **HERAKEM SRL**. The product must meet the minimum requirements of **EN 1504-3** for class **R2** non-structural mortars and the requirements of **EN 1504-2 coating (C)**, according to the **MC** and **IR** principles, for the protection of concrete. The application must be done with a trowel or spatula, in a thickness between 3 and 35 mm, in a single coat.

WARNINGS

- Use at temperatures between + 5 ° C and + 35 ° C.
- Respect the water / product ratio to avoid loss of mechanical strength and the possibility of cracks.
- Do not apply on substrates that are frozen, thawing or with the risk of frost in the 24 hours following installation.
- The product is ready to use and therefore must be mixed only with drinking water. Do not add plaster, cement or sand or other products used in construction.
- Do not add water to the mixture during the setting phase to try to make it workable.
- Do not apply on smooth surfaces; roughen the surface before application.
- Do not apply on painted or gypsum-based substrates.
- Do not apply on old floors with flaking tiles.
- Do not use on flexible and deformable surfaces such as metal, wood, rubber, PVC surfaces.
- After application, cure the cured area by preventing the water from evaporating too quickly and by nebulizing water for the first 48 hours.
- After application, protect from water until hardening.
- Do not leave the packages exposed to the sun before use.

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

Appearance	powder	Maximum applicable thickness per coat	35 mm
Color	gray	Dried mortar density	1650 kg/m ³
Density of the powder	approx. 1500 kg/m ³	Adhesion on concrete after 28 days	≥ 1,5 N/mm ²
Granulometry	1 mm	Compressive strength after 28 days	≥ 25 N/mm ²
Flammability	no	Flexion strength after 28 days	≥ 6 N/mm ²
Customs heading	38245090	Water permeability coefficient	W<0,1 class III (low permeability)
Mixing ratio	4,5 lt per 25 kg of product	Water absorption	W2
Mix consistency	thixotropic	Reaction to fire	A1
Pot life of the mix	20* minutes		

Consumption	approx. 1.4 kg/m² per mm of applied thickness	Packaging	25 kg bag
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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.