FONDOMASS

Ready–to–use mortar for traditional screeds, based on sand and cement, in indoor and outdoor environments.

EN 13813 CT CT-C20-F4-A1fl MASSETTI CEMENTIZI

PRONTO ALL'USO | easy | 24ore

TECHNICAL FEATURES

FONDOMASS is a ready-to-use dry premix for traditional screeds. Mainly made up of high-strength cements, mineral fillers of selected grain sizes and special additives. Designed for the construction of floating or anchored screeds; more over it can be used to fill technical spaces necessary to incorporate pipes of electrical or plumbing systems, to bring the walking surfaces to a height.

FIELD OF APPLICATION

FONDOMASS it is used for the construction of both floating and anchored screeds, on new and old slabs, indoors and outdoors in civil or industrial settings, for the installation of tiles, parquet, resilient materials and natural stones. Given the practicality of use FONDOMASS it is the ideal product for restructuring, especially in areas where it is not possible to find aggregates of an appropriate grain size, or in historic centers, where there are no adequate spaces for the storage of binders and aggregates. Its technical characteristics also allow it to be used in civil, office, commercial settings, etc.

PREPARATION OF THE SUBSTRATE

The substrates must be clean, dry, consistent and resistant to compression, free from shrinkage and not subject to rising damp; in this case, place a polyethylene sheet between the screed and the slab.

MIX PREPARATION

Mix the powder with clean water in the ratio of 8 ÷ 9% equal to 2 ÷ 2.25 liters of water per 25 kg of product for at least 2 ÷ 3 minutes. **FONDOMASS** can be prepared with a planetary mixer, screw mixer, in a cement mixer or with an automatic pressure pump. The mixture obtained must have a consistency of "damp earth". Spread the product and level up to the desired level, then compacting it adequately with a plastic trowel or with a rotating disc machine. The resulting surface must be homogeneous, without the presence of inconsistent parts.

APPLICATION

Arrange along the perimeter walls, the columns and the elements in elevation (including the pipes), a special tape of compressible material with a thickness of 0.7–1 cm.

a) Anchored screed: make sure that the substrate is dry, clean and consistent, free from dust, traces of gypsum and anything else that may limit adhesion. Apply an anchoring cementitious grout (setting bridge) with a brush to facilitate adhesion; this grout is obtained by mixing Portland cement with **HERALAX FLEX**, diluted with water. Immediately lay the screed using the " fresh on fresh " technique. In the case of anchored screeds it is necessary to reach a minimum thickness of 2 cm.

b) Floating screed: FONDOMASS can also be applied floating in a minimum thickness of 4–5 cm. For this purpose, spread polyethylene separation sheets on the support, taking care to overlap the edges by at least 25–30 cm and to seal the joints, in order to prevent any possible rising damp from the substrate. The sheets must be turned up on the walls, pillars or any vertical surface, above the thickness of the screed. It is advisable to have a residual humidity of the substrate lower than 2%, in any case the humidity of the substrate will tend to migrate along the side walls, since the polyethylene forms a vapor barrier. If the paved surface is crossed by pipes, the screed must be reinforced with a light reinforcement (eg galvanized fine mesh) and above the pipes a minimum thickness of the screed of 2–3 cm must be guaranteed. In the event that the laying of the screed is interrupted, it is necessary to introduce in the final part of the casting an electro–welded mesh or pieces of iron rod that protrude by at least 25–30 cm, in order to counteract the creation of cracks and unevenness in the resumption of the casting.

CLEANING

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

ITEM OF SPECIFICATIONS

For the realization of internal and external screeds with medium–fast hardening and drying and controlled shrinkage, use a pre–dosed product of class **CT–C20–F4–A1 $_{fl}$**, type **FONDOMASS** by **HERAKEM SRL**.

WARNINGS

- The applied product must be protected from frost and rapid drying for at least 48 hours; avoid drafts. Normally a temperature of + 5 ° C is recommended as a minimum value for the application and for a good hardening of the product; below this value, the setting would be excessively delayed.
- Avoid using at temperatures above + 30 ° C.
- For application on soundproofing materials, the thickness of the screed must be sized according to the compressibility and thickness of the insulation used; the use of electrowelded mesh is always recommended.
- Install wooden floors, resilient floors or similar only after making sure that the residual humidity, measured by a calcium carbide hygrometer, is less than 2%.
- The professional laying of a ceramic flooring with the "glue" method on any cement-based screed, must take place with a maximum residual humidity of approximately 4%.
- In the following situations it is advisable to insert an electro-welded mesh in the screed, halfway through its thickness: in the presence of irregular substrates or substrates with high compressibility, or where dynamic stresses or high concentrated loads are expected. The mesh must be suitable for the operating conditions of the screed.
- Do not add water to the product already in the hardening phase to make it workable.
- As soon as possible, make deep cuts between 1/3 and 1/5 of the thickness of the screed in the presence of edges, recesses, protrusions or continuous surfaces greater than 40m². These cuts have the function of reducing the possibility of the formation of cracks due to hygrometric shrinkage of the product during the initial phase of curing. The cuts are then covered with flooring.
- The product is ready to use, only add water in the right quantity. The addition of foreign materials can compromise the technical application characteristics.

TECHNICAL DATA *(at +22±1°C and 55±5% R.H.)			
Appearance	powder	Compression strength N/mm²	≥ 20
Color	gray	Flexural strength N/mm²	≥ 4
Solide residue	100%	Density of the hardened mortar kg/m³	2000 Kg/m³
Flammability	no	Walkability	after 24 hours*
Customs heading	3824 5090	Maturation time for laying ceramic floors	48÷72 hours*
Mixing ratio	2÷2,25 l of water every 25 kg	Maturation time for laying wooden and PVC floors	7 days*
Density of the mix	2100 Kg/m³	Moisture resistance	excellent
Mixing time	2÷3 minutes	Resistance to aging	excellent
Pot life of the mix	40÷60 minutes	Resistance to oils	excellent
Application temperature	from +5°C to +30°C	Resistance to acids and alkalis	poor

Consumption	**18÷19 kg/m² per cm of applied thickness**	**Packaging**	**25 kg bag**

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.