Basic MASSETTO

ST3-0221

Shrinkage-compensated cementicious mortar for medium-fast drying screeds

EN 13813 CE

DESCRIPTION

Basic MASSETTO is a ready-to-use hydraulic mortar, suitable for walkable screeds after 12 hours from laying, medium-fast drying, compensated shrinkage, excellent mechanical and stress resistance.
It is ideal for structures with continuous processing (industries, public places, offices, hotels, etc.).
It is CE marked as cement screed A1fl - C25 - F5 according to the EN 13813.

USES

Basic MASSETTO is used for internal and/or external screeds suitable for laying of : cermic tiles (after 24 hours), natural stones (after 3 days) and parquet, resilient flooring and textiles (waiting time changes according to thickness of the screed and environmental conditions). It is also suitable for radiant screeds.
The product is used for the total or local reconstruction of industrial floors and internal screeds on underfloor heating systems with radiant panels.

APPLICATION

	Manual application		Laying of: - ceramic tiles: 24 h - cotto tiles and natural stones: 3 dd - parquet etc: 7 dd **times refers to a thickness of 4 cm**
	Mixing water: 1,5-1,75 lt/ 25Kg variable according to the desired workability		
	Minimum thickness of screed: 4 cm Min thickness of floating screed: 3 cm		

The product can be used ready for use with the simple addition of potable water for each pack, in the quantity indicated in the table.
The amount of water is decisive for the rapid drying of the screed: an excessive addition of water would delay it considerably.
Basic MASSETTO has the workability of a traditional cement.
It is important not to add water to the mortar that started to set, trying to re-use the mixture: it would lose all the chemical-physical properties.
The mixing must be carried out with normal construction equipment (concrete mixer, planetary or auger mixer), transported with a pressure pump, applied and rubbed following the same methodologies as a normal cement screed.
The surface of the screed can be leveled after 24 hours from laying with **Betonfix RA**.
In case of anchored screeds, prime the surface with **Kimicover FIX**, laying the fresh screed on fresh.
When making floating screeds, the surface to be treated must be clean and covered with a waterproof membrane (PVC, bituminous membrane) against any moisture rising from the substrate.
In the perimeter of the rooms or in correspondence with internal elements such as pillars, place a soft separation element (cardboard, polyethylene, expanded polystyrene,

etc.) with a thickness of 1 cm.
The minimum thickness of the screed must be 4 cm: in localized reductions in thickness at the passages of piping or channels, the screed must be reinforced with a wire mesh.
For floating screeds, the thickness can be reduced up to 3 cm, appropriately reinforcing the screed with wire mesh.
Possible joints for working interruptions must be made leaving a sharp vertical cut and an electro-welded metallic reinforcement of union between the two castings, so as not to have unevenness. Provide expansion joints in the case of screeds that exceed 40 square meters or 8 meters in length.
In the construction of screeds on radiant panel systems, the start of the thermal cycle begins after curing, at a supply temperature between 20 ° C and 25 ° C, which must be maintained for at least 3 days. The maximum design temperature must be set and maintained for at least other 4 days, in accordance with the indications provided by EN 1264-4.

CONSUMPTION
18,5 Kg/m^2/cm

PACKAGING
Bag 25 Kg.

STORAGE
The product fears moisture. Store in a sheltered and dry place; in these conditions and in intact containers, the product maintains its stability for 12 months.

Characteristics	Value
Appearance	Powder
Color	Grigio
Reaction to fire	Not flammable
pH in water dispersion	12
Application temperature	5 - 35 °C
Toxicity	Nul
Mixing time	5 mins
Workability time	50 mins

Properties of hardened mortar (mixing water 7%)	Limits EN 13813	Value
Compressive strength in 28 dd EN 13892-2	Declared value	In 3 dd >18 MPa; In 7 dd > 20 MPa In 28 dd> 25 Mpa
Flexural strength in 28 dd EN 13892-2	Declared value	In 3 dd >3 MPa; In 7 dd > 3,5 MPa In 28 dd> 5 Mpa
Residual moisture	Declared value	In 3 dd >3 % In 7 dd > 2,0 % In 28 dd> 1,6 %
Class EN 13813	Declared value	CT (made out of cementitious binders)
Thermal conductivity UNI EN 12667	Declared value	0,9 W/(m*K)

Properties of hardened mortar (mixing water 7%)	Limits EN 13813	Value
Reaction class to fire	from A1fl to Ffl	A_{1fl}

WARNING
Product intended for professional use.
Different batches of the same raw materials have slightly discordant colors, between one batch of production and the other there could be small chromatic variations that do not affect in any way the technical performance of the products supplied.
Do not mix other binders (cement, gypsum, lime) or other aggregates in the mixture. Do not use **Basic MASSETTO** for screeds in contact with damp substrates. An excessive quantity of water and a temperature below + 20 ° C delay the drying times: before laying the tiles always check the percentage of humidity using suitable instruments.
Check the integrity of the package before use and do not use the product with lumps.
Do not perform castings with temperatures lower than + 5 ° C or higher than +30 C.
Make screeds with a thickness not lower than 3 cm; for the construction of screeds with thicknesses lower than 3 cm contact our technical office.

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, ecological, toxicological and other data related to safety.
All technical data shown in this Technical Data Sheet are based on laboratory tests. Actual measurement data may vary due to circumstances beyond our control.

The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.