MARMOLINE
ADVANCED BUILDING MATERIALS

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GTL 30

EN 13813
CT C5 F1

Lightweight thermal insulation floor screed 5-20 cm

DESCRIPTION

Ready mortar based on Portland grey cement, white marble aggregates, special additives to improve adhesion to difficult surfaces and improve its flow properties, and polystyrene grains which provide thermal insulation and reduce the burden. It does not contain lime. Simply mix with water. It minimizes material preparation time and increases the speed of application.

The product is accompanied by an Environmental Product Declaration (EPD) regarding the environmental impact during its life cycle (EPD registration number: S-P-11336)

APPLICATION FIELDS

Filling, leveling and sloping of floors, to create a final surface ready for fixing ceramic tiles, marbles or granites. Suitable to use both indoors and outdoors (balconies, roofs, flat-roofs, etc.). It does not crack. It does not affect pipes. It provides considerable thermal insulation and due to its lighter weight, it can be used in cases where thicker filling is required. The recommended minimum application thickness is 5 cm. Only under the supervision of an experienced applicator, the product can be applied in smaller thicknesses, down to 2 cm. It is not recommended for industrial facilities (e.g. warehouses), parking areas, and in general wherever there may be heavy loads and high strains.

CHARACTERISTICS/ ADVANTAGES

- Lightweight
- Thermal insulating
- Excellent adhesion
- Moisture- and frost-proof
- Prevents cracking
- Excellent final surface
- Indoor and outdoor use
- Easy to apply
- Excellent workability
- Fast to prepare
- Stable quality

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PRODUCT INFORMATION

Composition	Portland Cement, aggregates of selected grading, special additives and polymer polystyrene grains
Colour	Grey powder
Packaging	30 kg paper bag - 1350 kg pallet (45 paper bags)
Storage Conditions	In the original, closed, sealed and indestructible packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C
Shelf life	12 months from the date of production in unopened package

TECHNICAL CHARACTERISTICS

Specific gravity of wet mortar:	1600 Kg/m³	
Apparent density of dry mortar:	1250 Kg/m³	
Apparent density of hardened mortar:	1500 Kg/m³	
Max. grading:	3 mm	
Compressive strength in 28 days :	$\geq$ 5 MPa	(EN 13892-2)
Flexural strength in 28 days :	$\geq$ 1.5 MPa	(EN 13892-2)
Thermal conductivity λ:	0.482 $W.m^{-1}.K^{-1}$	

APPLICATION INFORMATION

Substrate temperature	+5°C / +35°C
Environmental temperature	+5°C / +35°C
Mixing ratio	5 - 6 lt of water /bag of 30 kg
Consumption	Approx. 12 kg of mortar per m^2, for 1 cm of thickness

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APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be firm, compact, dry and free from dust, loosely attached particles and all kinds of dirt. It is recommended to wet the substrate before application.

MIXING

Mix by means of a cement mixer or the special machines supplied by MARMOLINE, with the necessary quantity of water, until a homogeneous mixture is obtained.

The quantity of added water depends on the desired fluidity.

To make inclinations reduce the quantity of water.

APPLICATION

- Spread the wet mortar and level it by using a T-shaped lath
- Level each room separately by fixing 1cm-thick wooden laths at the doors
- Remove the laths and do not fill the joints that are formed
- It is recommended to create expansion joints per 20 m^2 of surface
- Step on the floor after at least 12 hours and fix tiles or marbles after 48 hours, depending on the prevailing weather conditions

TOOLS CLEANING

Fresh material should be removed immediately from the application equipment with water. Hardened/mature material can only be removed by mechanical means.

IMPORTANT NOTES

- It is not recommended for application in areas of industrial uses, in parkings, and generally in places where big loads are expected
- The content of the bag should be protected from humidity
- Do not add excessive amounts of water because this can reduce the product's strength and cause cracks
- Not recommended for use in extreme weather conditions (frost or heatwave). Application temperature +5°C to +35°C
- If a pump is used, properly clean the elastic components after the end of operation

COMPLIANCE WITH STANDARDS

It has CE marking and Performance Declaration as CT-C5-F1, according to EN 13813.

HEALTH, SAFETY & ENVIROMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the product and in matters of Health & Safety, are provided in the most recent Safety Data Sheet (SDS), copies of which are available on the company's website www.marmoline.gr or upon request.

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LEGAL NOTICE

We guarantee the quality of all our products, based on their technical specifications, as described in the Declaration of Performance (CE) and this Technical Data Sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depends on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project. All data stated in this Technical Data Sheet are based on laboratory tests. The really measurable data might differentiate due to conditions that are not subject to our control. The recommendations and implementation instructions must be considered by the user as indicative, and always with given that the product has been traded and traded and stored according to its instructions. As it is not possible to control the parameters/conditions of its application product in practice, no guarantee is provided for the final result of each application. Consequently, no legal liability of the Company can be established based on the information and instruction given in this Technical Data Sheet. The Company reserves the right to modify data listed in this Product Data Sheet, with no previous warning. Users must refer to the latest version of the product Technical Data Sheet.

CE 12 DoP:051 MARMO-CPR
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece
EN 13813:2002 MARMOLINE GTL 30 Floor screed
Reaction to fire: $A1_{fl}$ Release of corrosive substances: *CT* Compressive strength: *C5* Flexural strength: *F1*