

FLEX 2000

High performance extra flexible tile adhesive



DESCRIPTION

High performance, polymer modified, extra flexible, cementitious tile adhesive with zero vertical slip and extended open application time. Suitable for fixing tiles of any type and size (gres porcelanato type, granite tiles, marble, glass, tiles, decorative stones, natural stone, large dimension tiles) on horizontal and vertical surfaces.

Highly recommended for demanding tile fixings on surfaces with high adhesion requirements, flexibility and moisture resistance, (eg balconies, terraces, floors and underfloor heating, concrete, pools, metal surfaces water tanks, gypsum boards, etc.). Suitable for indoor and outdoor areas.

Classified as C2TES1 according to EN 12004 with CE marking.

USAGES

FLEX 2000 is suitable for fixing the following types of tiles:

- Tiles of any type, medium to and large dimensions
- Marbles and mosaics
- Low absorbency tiles
- Artificial and natural granite tiles
- Glass tiles
- Gres porcelain type tiles
- Decorative stones, natural or artificial

FLEX 2000 is suitable for application on the following types of substrates:

- Concrete and cement mortars
- Coatings & mortars
- Brick masonry
- Mosaic and existing old tiles
- Cement boards, plasterboards (using a suitable primer)

FLEX 2000 is suitable for application on horizontal and vertical surfaces in the following areas:

- Living areas (kitchens, living room, bedrooms, bathrooms, showers)
- Balconies, terraces, terraces, patios
- Pools
- Warehouses & handling areas
- Office spaces
- Commercial buildings
- Surfaces with underfloor heating system

CHARACTERISTICS/ ADVANTAGES

Ideal for fixing absorbent and non-absorbent tiles of large dimensions on surfaces and especially where high adhesion, extra flexibility & moisture resistance is required (old tiles, underfloor heating, pools, plasterboards). Suitable for indoor and outdoor surfaces.

PRODUCT INFORMATION

Composition	Portland Cement, aggregates of selected granulometry, special additives and polymer components
Colour	White
Packaging	<ul style="list-style-type: none"> • 25 kg paper bag - 1500 kg pallet (60 paper bags) & 600 kg pallet (24 paper bags) • 5 kg plastic bag - Pallet of 960 kg (48 cartons of 4x5 kg)
Storage	12 months from the date of production in unopened package, in a dry place

TECHNICAL CHARACTERISTICS

Specific gravity of wet mortar: ~ 1,55 kg/ltr (+20°C)

Adhesion strength:

Average values based on production control laboratory tests:

On concrete after 28 days:	>1 N/ mm ²	(EN 1348)
After heating at 70°C:	>1 N/mm ²	(EN 1348)
In water:	>1 N/mm ²	(EN 1348)
After 25 cycles of freezing - thawing	>1 N/mm ²	(EN 1348)
Slip	≤ 0,5 mm	(EN 1308)

Open time for application:	30-40 min	
Time for minor corrections:	10 min	
Deformation	>2,5mm (EN 12002)	(S1)

APPLICATION INFORMATION

Substrate temperature	+5°C / +35°C
Environmental temperature	+5°C / +35°C
Dilution	~7,0 lt water/bag 25 kg
Consumption	2,5 - 4 kg/m ² , depending on the levelling of the surface, the size and the type of tile
Grouting	On floor: ~12 h at +20°C On walls: ~24 h at +20°C

DIRECTIONS OF USE

SUBSTRATE PREPARATION

Check that the substrate is clean, dry and free from loose particles and other materials. If the substrate is unstable or crumbles, then it is recommended to prime the surface with MARMOLINE MST 11 acrylic water based primer.

MIXING

Mix FLEX 2000 with the necessary quantity of water, using an electric mixer at low speed, until a homogeneous, lump-free mixture is obtained. Leave the mixture to set for 5-10 minutes and stir again for 1-2 minutes.

Spread with a notched trowel; choose the size according to the type of tile and the substrate.

Tiles must be fixed within 30 minutes after applying the adhesive and definitely before it skins-over.

APPLICATION

Fix the tiles by applying pressure to them. The adhesive remains workable in the pot for 3 to 4 hours, depending on the season, temperature and humidity of the environment.

When the adhesive begins to set, stir again without adding water. Proceed to grouting after 24 hours for floors and 12 hours for walls.

TOOLS CLEANING

Raw material should be removed immediately from the application equipment with water. Hardened / mature material can only be removed mechanically.

IMPORTANT NOTES

- The laying of the adhesive should be done at temperatures between +5°C and +35°C, without exposure to extreme weather conditions.
- Apply only on stable, well-prepared substrates.
- Do not exceed the recommended maximum amount of mixing water.
- Do not add extra water to adhesive that has already started to set.
- Do not exceed the maximum application thickness. Protect the application surface from frost, wind and direct sunlight for at least 24 hours after application.

COMPLIANCE WITH STANDARDS

It has CE marking and Performance Declaration as improved, deformable, normal setting cementitious tile adhesive with reduced slip and extended available time, C2TES1, according to EN 12004: 2007.

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.

LEGAL NOTICE

We guarantee the quality of all our products, on the basis of 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 depend 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 technical data stated in this Product Properties Sheet based on laboratory tests. The really measurable data can have differentiated due to conditions that do not are subject to our control. The recommendations and implementation instructions must be considered from 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, cannot no guarantee is provided for result of each application. Therefore, no legal basis can be established liability of the Company based on the information and instructions here in Product Properties Sheet. The Company reserves the right amendment of those listed herein Product Properties Sheet, no warning. Users must refer to the latest version Product Properties Sheet.

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NORDIA A.E. 364 Kifissias Av., 15233 Chalandri, Athens, Greece	
EN 12004:2007 + A1:2012 MARMOLINE FLEX 2000 Improved deformable cementitious adhesive with reduced slip and extended open time, for internal and external tiling	
Initial tensile adhesion strength:	≥ 1N/mm ²
Tensile adhesion strength after heat ageing:	≥ 1N/mm ²
Tensile adhesion strength after water immersion:	≥ 1N/mm ²
Tensile adhesion strength after freeze/thaw cycles:	≥ 1N/mm ²
Reaction to fire:	Class : A2-s1, d0
Release of dangerous substances:	See product's SDS