

AQUATA FL

Flexible, polymer modified two component waterproofing mortar

EN 1504-2

EN 14891
CM O1

DESCRIPTION

Flexible, brushable, cement based, two-component waterproofing slurry. It consists of a cementitious mortar (component A) and a resinous emulsion (component B). It is ideal for the excellent waterproofing of concrete surfaces, underground tanks and surfaces that will be covered with tiles.

FIELDS OF APPLICATION

- Waterproofing of basement walls and foundations.
- Waterproofing of surfaces made of brick, concrete, render, etc.
- For wet spaces with negative pressures (underground tanks, swimming pools).
- Waterproofing of surfaces to be covered with tiles such as balconies, terraces, inverted roofs, wet areas (bathrooms, kitchens) etc.
- For indoor or outdoor applications

CHARACTERISTICS/ADVANTAGES

- Resistant to negative or positive water pressure
- Protects concrete from carbonation and atmospheric agents.
- Strong adhesion to the substrate such as concrete, cement mortars, stone, masonry
- Permeable by water vapor.
- Crack bridging ability.
- Offers resistance to ageing.
- Excellent workability.
- Easy to handle and apply.
- User and environmentally friendly

PRODUCT INFORMATION

Composition	Component A: Cement modified with polymers, specially selected aggregates. Component B: Acrylic based liquid
Appearance/Colour	Grey powder
Packaging	Component A: Paper bag 25 kg - 1500 kg pallet Component B: Plastic container 10 kg
Storage conditions	Store in the original, closed, sealed packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C
Shelf life	12 months from date of manufacture

TECHNICAL CHARACTERISTICS

Specific gravity of wet mortar :	~ 1.70 kg/lit (+20°C) (mixing of components A and B)	
Water vapour permeability:	Class I ($s_D < 5$ m)	(EN ISO 7783)
CO₂ Permeability :	$s_D > 50$ m	(EN 1062-6)
Adhesion strength by «pull-off» test :	≥0.8 MPa	(EN 1542)
Crack bridging ability :	Method A – Static: Class A4 at 23°C Class A3 at -10°C	(EN 14891)
Capillary water absorption :	$w < 0.1$ kg/m ² h ^{0.5}	(EN 1062-3)
Use beneath ceramic tiling bonded with adhesives :	Class: CM O1 Impermeable to water under pressure Initial adhesion : 0.75 N/mm ² (> 0.5 N/mm ²) Adhesion after immersion in water : 0.54 N/mm ² (> 0.5 N/mm ²) Adhesion after heating : 0.94 N/mm ² (> 0.5 N/mm ²) Adhesion after freeze-thaw cycles: 0.56 N/mm ² (> 0.5 N/mm ²) Adhesion after immersion in lime water: 0.58 N/mm ² (> 0.5 N/mm ²) Crack bridging ability at 23°C: 1.20 mm (> 0.75 N/mm ²) Crack bridging ability at -5°C: 0.81 mm (> 0.75 N/mm ²)	(EN 14891)
<i>The tile adhesive used in the test was MARMOLINE FLEX 2000 (C2TES1):</i>		

APPLICATION INFORMATION

Substrate temperature	+5°C / +35°C
Ambient temperature	+5°C / +35°C
Mixing ratio	Component B (10 kg) / 25 kg bag
Maximum application thickness	2 mm in 2 layers
Consumption	1.65 kg/m ² /mm, the thickness of the application depends on the requirements of each project.

DIRECTIONS OF USE

SUBSTRATE PREPARATION

The substrate must be stable, dry and free from dust, loosely attached particles and all kinds of dirt. In addition, the surface must be clean, without dust, salts or oil.

MIXING

Pour the liquid emulsion (component B) into a clean container leaving a small amount in the container. The powder mortar (component A) must be added slowly to the liquid, mixing at the same time with a suitable mixer. Use a mechanical stirrer for mixing, on slow speed, until the material is homogeneous and without lumps.

Let the mixture rest for 3 minutes and mix again, adding the remaining amount of liquid. Not allowed to add water to the mixture.

APPLICATION

The material is applied in two layers.

Apply the first layer with a brush, pressing the material onto the surface. The second layer can be applied (with a brush, spatula or roller) when the first has dried and always in a crosswise direction to the first layer. Sequel interval of coatings: minimum 12 hours and maximum 48 hours at 20°C.

The maximum total application thickness should be 2mm, applied in two layers. In areas subject to high stresses, local reinforcement of AQUATA FL is required. Use of a tape of polyester fabric (30 gr/m²) or fiberglass mesh (58 gr/m²) on the first layer of mortar while it is still fresh. The mesh must be placed and completely embedded in the mortar.

After application, the material must be protected for 3 days from strong wind, extreme temperatures, cold and rain.

TOOLS CLEANING

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

IMPORTANT NOTICE

- The application of the adhesive and installation of the tiles should be carried out at temperatures between +5°C and +35°C, without exposure to direct sunlight and strong wind.
- Apply only to stable, well-prepared substrates.
- Do not add any other material to the mixture.
- Do not add extra water to the material that has already started to set.

COMPLIANCE WITH STANDARDS


CE marking and Declaration of Performance based on standards EN 1504-2 (surface protection systems for concrete) and EN 14891 (liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives).


HEALTH, SAFETY & ENVIRONMENTAL 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 <https://marmoline.gr/> or upon request.

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.

 22 DoP: 088 MARMO-CPR	
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens, Greece	
EN 1504-2:2004 MARMOLINE AQUATA FL Surface protection products - Coating principles 1.3 (C), 2.2 (C)	
Adhesion strength by «pull-off» test:	≥ 0.8 MPa
Water vapour permeability:	S _D < 5 m (Class I)
Capillary absorption:	W < 0.1 kg/m ² h ^{0.5}
CO ₂ Permeability:	S _D > 50 m
Crack bridging properties (static method):	Class A4 (23°C)
	Class A3 (-10°C)
Reaction to fire:	B- s1,d0
Dangerous substances:	Complies with §5.3
See detailed DoP in https://marmoline.gr	

 22 DoP: 089 MARMO-CPR	
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens, Greece	
EN 14891:2017 MARMOLINE AQUATA FL Two component cementitious liquid-applied water impermeable product, with improved crack bridging ability at low temperature (CM O1), for use beneath ceramic tiling bonded with adhesives (recommended adhesive class C2 S1 according to EN 12004 standard)	
Water tightness:	No penetration
Initial tensile adhesion strength:	≥ 0.5 N/mm ²
Tensile adhesion strength after heat ageing:	≥ 0.5 N/mm ²
Tensile adhesion strength after water contact:	≥ 0.5 N/mm ²
Tensile adhesion strength after contact with lime water: Tensile adhesion strength after freeze-thaw cycles:	≥ 0.5 N/mm ²
Crack bridging ability at 23°C:	≥ 0.75 mm
Crack bridging ability at low temperature (-5°C):	≥ 0.75 mm
Dangerous substances:	See product's SDS
See detailed DoP in https://marmoline.gr	