MARMOLINE
ADVANCED BUILDING MATERIALS

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AQUATA FL

Flexible, polymer modified, two component waterproofing slurry

DESCRIPTION

AQUATA FL is a 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.

Certified according to the EN 1504-2 standard as a concrete surface protection product as well as to the EN 14891 standard as a two-component brushable waterproofing product for application under tiles in exterior or interior spaces.

FIELDS OF APPLICATION

The membrane formed is suitable for:

• The waterproofing of basement walls and foundations.

• The waterproofing of surfaces made of brick, concrete, render, etc.

• For wet spaces with negative pressures (underground tanks, swimming pools).

• For the waterproofing of surfaces to be covered with tiles such as balconies,terraces, inverted roofs, wet areas (bathrooms, kitchens) etc.

• For indoor or outdoor applications.

FEATURES/BENEFITS

• Resistant to positive and negative 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.

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PRODUCT INFORMATION

Base	Cement modified with polymers, specially selected aggregates.
Appearance/ color	Grey powder
Packaging	A comp: 25kg & B comp: 10kg
Storage conditions	In the original, closed, sealed and indestructible package, protected from direct sunlight and frost and at temperatures from +5°C to + 35°C.
Lifetime	12 months from production date (stored in a closed container in a shady place)
Density	1.7 kg/lt

TECHNICAL CHARACTERISTICS

Requirements according to EN 1504-2

Initial tensile bond strength	≥0.8 Mpa
Water vapor permeability	Sd < 5 m (Class I)
Capillary water absorption	W<0.1 kg/m^2 ·h ^{0,5}
Permeability CO_2	Sd > 50m
Crack bridging ability (EN 1062-7)	Class A4(+23^{O}C) Class A3(-10^{O}C)
Fire behavior	Euroclass F

Requirements according to EN 14981

Water penetration into negative hydrostatic pressure	no penetration
Adhesion	≥ 0,87N/mm^2
Adhesion after contact with chlorinated water	≥ 0,5 N/mm^2
Adhesion after freeze/thaw cycles	≥ 0,5 N/mm^2
Adhesion after thermal ageing	≥ 0,5 N/mm^2

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Crack bridging ability at +23°C	≥ 0,75mm
Crack bridging ability at -5°C	≥ 0,75mm

APPLICATION INFORMATION

Environmental temperature	Temperature from + 5 °C to + 30 °C
Consumption	1.65 kg/m^2 /mm, the thickness of the application depends on the requirements of each project.
Health and Sfety	May cause an allergic reaction. Safety data sheet provided upon request.
Mixing ratio	Comp. A: Comp. B= 25: 10

APPLICATION INSTRUCTIONS

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.

APPLICATION

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. 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/m^2) or fiberglass mesh (58 gr/m^2) 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.

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During the summer months, the mortar should be maintained by spraying with water.

Avoid direct application of the material under high temperatures or strong wind.

OVERCOATING TIME/ INTERVAL TIME

Tile fixing:	after ~ 2 days
Immersion in water	after at least 15 days
Walking	after ~ 2 days
Rain	after ~ 1 day

**Waiting times may vary depending on temperature, atmospheric humidity and substrate moisture.*

CLEANING TOOLS

With plenty of water immediately after use. Hardened and/or cured material can only be removed mechanically.

LEGAL NOTICES

We guarantee the quality of the product, in terms of its technical specifications, as presented in the technical data sheet. This guarantee is strictly only for the available product and in no case the final result from its application, which depends to a large extent on the experience and quality of work of each user, as well as the conditions of application.

It is recommended that the user apply the product on a small scale and after making sure of the result, then use it in his project. Publication of this technical data sheet supersedes any previous version.

MARMOLINE reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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DoP: 088 MARMO-CPR

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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:	SD < 5 m (Class I)
Capillary absorption:	W < 0.1 kg/m2 h0.5
CO2 Permeability:	SD > 50 m
Crack bridging properties (static method):	Class A4 (23oC)
	Class A3 (-10oC)
Reaction to fire:	F
Dangerous substances:	Complies with §5.3

See detailed DoP in https://marmoline.gr

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N 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