AQUATUTOR®
GRIGOFLEX FIBRA

Two-component waterproof cement membrane for application on terraces, balconies, bathrooms, swimming pools, and concrete products.

Product description

Two-component, fiber-reinforced waterproof cement membrane for application on terraces, balconies, bathrooms, swimming pools, and concrete structures. It remains elastic even at low temperatures (-20 C°), resistant alkali and resistant chlorine.
AQUATUTOR® GRIGOFLEX FIBRA Comp. A is a powdered fibrate premix which kneaded with AQUATUTOR® GRIGOFLEX FIBRA Comp. B gives rise to an impermeable coating with high characteristics of adhesion to the support, flexibility and water vapour permeability.

Fields of use

- Waterproofing the walls and floors of: swimming pools, bathrooms, showers or rooms subject to high humidity before installing ceramic coatings;
- Waterproofing of terraces and balconies, prior to the installation of ceramics compliant with the performance requirements of class CMO2P of the EN 14891:2012 standard. Particularly suitable with raised floors;
- Restoration of the waterproofing of old terraces without demolishing the existing floor;
- Skim-coating of cracked plasters;
- As a primer before skim-coating an old ceramic floor with self-leveling (BASEFORTE® GRIGOLEVEL);
- Protection of concrete from the effects of carbonation or salt attack in general.

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Surface preparation

The condition of the support must always be checked: casting shoots, gravel nests, cracks, holes in the drawers' tie rods and surface defects must be previously sealed, shaved and/or filled with the thixotropic GALILEO UNI RR skim-plaster.
The surfaces to be treated must be structurally healthy and well cleaned of dust residues, oils, fats, efflorescence and in general of all materials that can compromise adhesion (chest dearmant). For cleaning, systems such as sandblasting, hydro-sandblasting or water under pressure (high-pressure washer) or with the basic detergent BASEFORTE® DTG BASICO are recommended.
In the case of existing structures to be restored, it is recommended:
demolition of pre-existing material at the corners and/or connection areas between the flooring and vertical walls
replacing the removed portions with GALILEO UNI RR, creating a concave shell capable of accommodating AQUATUTOR® GRIGOFLEX FIBRA.

Dough preparation

AQUATUTOR® GRIGOFLEX FIBRA must be mixed with a whip drill at low speed. First introduce the liquid and then the powder, kneading for about 3/5 minutes until you obtain a creamy and lump-free mixture.

Methods of application

To obtain the best results, before proceeding with the laying operations, the curing and the residual humidity rate of the subgrade must be verified. The table lists the most frequent cases with their ideal curing.

Surface	Minimum waiting time	Residual humidity
BASEFORTE® MIXCEM PRONTO	5 days	4%
BASEFORTE® SF 400	7 days	6%
BASEFORTE® EXPRESS 2	24 hours	4%
Cement screeds	28 days	6%
Cement plasters	28 days	5%
Concrete	3 months	5%

Place the AQUATUTOR® GRIGOJOINT band at all corners between the wall and the floor and at all the most critical points, such as drains, headlights, pipes, etc. Expansion joints must be covered by the band, arranging it in such a way as to form an omega, so as to accommodate the movements without being put under tension.
Apply a layer of AQUATUTOR® GRIGOFLEX FIBRA with the smooth side of the spatula to ensure good wetting of the surface.
Apply the product in two hands each at a distance of 1.5-2 mm from each other (see exercise time table), when the first layer is already hardened. To make the membrane more resistant to any cracks of the surface, it is necessary to drown the alkali-resistant fiberglass mesh inside the first coat, topping it by at least 10 cm between each sheet.
The next laying of ceramics can be done after about 3-4 days.

Indicative consumption

The consumption of AQUATUTOR® GRIGOFLEX FIBRA depends on the state of the support and the type of coating.
In general:
1,7 kg/m^2 per 1 mm thickness

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Technical advice

- AQUATUTOR® GRIGOFLEX FIBRA is suitable for all the applications described, without requiring the addition of other binders (cement, lime, gypsum, etc.), or additives.
- The surfaces to be waterproofed must have a suitable slope for the regular flow of water.
- Eliminate any causes of moisture return to the subfloors and residual efflorescence.
- Cracks in the underlays shall be sealed with BASEFORTE® RIPARAMASS, before starting the laying operations.
- In case it has rained on already cured underlays, before application wait until the support has returned to the humidity described in the table indicated in the “application methods”.
- Moisten the supports with water when applied to absorbent bottoms or at temperatures above 30°C, to prevent the mortar from dehydrating too quickly.
- Make thicknesses up to a maximum of 2 mm per hand.
- Use the product only when it has a runny consistency. Once set, it is difficult to roll out, and it is necessary to prepare a new dough.
- Protect coatings from blazing sun, rain or washout for at least 24 hours
- Protect coatings from frost for at least 7 days.

Operating time

AQUATUTOR® GRIGOFLEX FIBRA	Pot life	Waiting time between the 2 coats	Walkability	Laying
≈ +5°C	> 3 h	> 5 h	> 4 h	≈ 4 days
≈ +20°C	2 h	> 4 h	> 3 h	≈ 3 days
≈ +35°C	> 45 min	> 90 min	> 60 min	≈ 2 days

Supply and storage

AQUATUTOR® GRIGOFLEX FIBRA comp. A is supplied in bags on pallets with extendable. Store in a cool, dry, non-ventilated place. Keep the packaging intact. Use by the expiry date which is stated on the bag.
AQUATUTOR® GRIGOFLEX FIBRA comp. B is supplied in jerry cans. Place it in an area sheltered from the direct action of the sun’s rays and the action of frost.

Warnings

Do not apply AQUATUTOR® GRIGOFLEX FIBRA below +5°C and above +35°C, or that it may drop below +5 °C in the following 24 hours. Under normal atmospheric conditions wait about 7 days before contact with water.
Avoid contact with hydrocarbons
Do not apply to gypsum or anhydrite based surfaces without prior application of BASEFORTE® PRIMER IDROX.
Do not apply to metal supports, bituminous sheaths, to waterproof walkable and exposed surfaces, on lightened screeds, on reverse roof insulation made of insulating panels or lightened materials, where gluing of the coating with GRIGOKOLL® OMNIX or reactive adhesives is required.
In case of application on wood please contact the Technical Assistance service.

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TECHNICAL DATA	PERFORMANCES	STANDARD
Maximum application thickness	3-4 mm	
Mixing ratio	powder : liquid = 2.80 : 1 bag : canister = 1 : 1	
Waterproofing	(1.5 atm for 7 days in positive) waterproof	UNI EN 12390/8 MOD
Elongation at break (after 28 days at 23°C and 60% R.H.)	> 15%	
Fresh density	1550 kg/m³	
Adhesion to concrete (after 28 days at 23°C and 60% R.H.)	> 0,5 MPa	EN 1542
Capillary absorption and water permeability	w < 0,04 kg/m²·h^{0,5}	EN 1062-3
Carbon dioxide (CO2) permeability	SD > 200 m	
Fire reaction class	classe E	
Static crack-bridging	Class A3 (> 0,5 mm)	EN 1062-7
Dynamic crack-bridging	Class B1-B2 (No specimen breakage after 1,000 cracking cycles with crack movements from 0.10 to 0.30 mm)	EN 1062-7
Water vapor permeability, equivalent air thickness SD (m)	SD= 1,47 m μ = 638	EN ISO 7783-1
Initial adhesion	> 0,5 N/mm²	EN 14891
Adhesion after immersion in water	> 0,5 N/mm²	EN 14891
Adhesion after exposure to heat	> 0,5 N/mm²	EN 14891
Adhesion after immersion in water and lime	> 0,5 N/mm²	EN 14891
Adhesion after freeze/thaw action	> 0,5 N/mm²	EN 14891
Adhesion after immersion in chlorinated water	> 0,5 N/mm²	EN 14891
Crack bridging ability	> 0,75 mm	EN 14891
Crack bridging ability at low temperature (-20°C)	> 0,75 mm	EN 14891

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