AquaTutor®
waterproofers

# GRIGOFLEX FIBRA

**Waterproof coating, fiber-reinforced, bi-component and flexible, based on cement and acrylic polymers, for the treatment of concrete structures and masonry**


## Product description

AquaTutor® GRIGOFLEX FIBRA is a premixed powder which, mixed with AquaTutor® GRIGOFLEX Comp. B, results in a fiber-reinforced waterproof coating with high adhesion to the surface, flexibility and permeability to water vapor.
AquaTutor® GRIGOFLEX FIBRA is mainly used for the treatment of: tanks, water purifiers, swimming pools, aqueducts, canals, elevator shafts, earth dams, basements, locker rooms, showers, balconies, terraces, etc.
AquaTutor® GRIGOFLEX FIBRA should be applied in two layers with a scrubbing brush, spatula or brush and can be used vertically and horizontally to ensure a perfect seal in thrust and counter-thrust.
In the presence of cracks is strongly recommended the use of a reinforcement, fiberglass alkali-resistant mesh, interposed between two layers.
AquaTutor® GRIGOFLEX FIBRA is available as a 34 kg. kit (25 kg. of powder and 9 kg. of liquid).

## Supply and Storage

Packaging: 25 kg. bag / 9 kg. canister


## Surface Preparation and Application

Verify the conditions of the surface: cast sparys, gravel nests, cracks, holes for bolts of molds and surface defects, must be sealed, shaved and/or plastered with GALILEO UNI RR.
The surfaces to be treated should appear structurally sound and well cleaned from dust, oil, grease, efflorescence, and usually from all materials which may affect adherence (disarming of molds).
For cleaning, it is recommended to use systems such as sand-blasting, water-blasting or water under pressure (pressure washer).
In the case of old structures to be restored, it is recommended the demolition of existing material at the corners and/or connection areas between vertical walls and flooring and replace it with GALILEO UNI RR by creating a concave surface which cannot accommodate AquaTutor® GRIGOFLEX FIBRA.
AquaTutor® GRIGOFLEX FIBRA should be mixed with a power drill at low revs.
Always pour the water first and then the powder, mix for about 3-5 minutes until obtaining a creamy mixture, free of lumps. Allow the dough to rest for about 5 minutes to allow for proper dispersion of the polymer.
Fully soak the surface with clean water and then remove the water in excess.
AquaTutor® GRIGOFLEX FIBRA may be applied by scrubbing brush, trowel or brush in two layers, after the hardening of the first one, to a maximum total thickness of about 3-4 mm.
For surfaces greater than 10 $m^2$ it is necessary to insert the reinforcing mesh between the two layers, inside the first coat, overlapping it by at least 10 cm between each sheet. The subsequent laying of ceramics can be performed after about 3-4 days.
In case of the closed structures with limited ventilation, remove any traces of condensation.
In the impermeability of balconies and terraces for ceramic laying on AquaTutor® GRIGOFLEX FIBRA, use GrigoKoll® products.

## Technical data

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| Max. application thickness | 3-4 mm in two layers |
| Mixing ratio | powder:liquid = 2,80:1<br>bag:canister = 1:1 |
| Impermeability to water (1.5 atm. per 7 days in positive slope) UNI EN 12390/8 mod. | waterproof |
| Capliary absorbtion and water permeability (EN 1062-3) | w < 0,04 $kg/m^2*h^{0,5}$ |
| Elongation at break (after 28 days at 23°C and 60% relative humidity): | > 15% |
| Water vapor permeability coefficient | μ < 250 / $s_d$ < 2 m |
| CO2 dispersal coefficient | Not measurable |
| Fresh volume mass | 1550 $kg/m^3$ |
| Adhesion to concrete (after 28 gg with temperature 23°C and 60% U.R.) according to EN 1542 | > 0,5 MPa |
| Pot life | > 45 min. |
| Curing time | > 3h |
| Carbon dioxide permeability (CO2) | $S_D$ > 200 m |
| Reaction to fire | class E |
| Static Crack-bridging according to EN 1062-7 | class A3 (> 0,5 mm) |
| Dinamic Crack-bridging according to EN 1062-7 | class B1-B2 (no rupture of the specimen after 1000 cracking cycles with slit movements from 0,10 to 0,30 mm) |
| Permeability to water vapor - equivalent air thickness SD (m) according to EN ISO 7783-1 | $S_D$ = 1,47 m<br>μ = 638 |
| Consumption | approx. 1,7 kg./sqm. per mm. of thickness |

For structure which come in contact withaggressive waters (durity in °F), acid substances (pH), high temperatures (°C) and surfaces in the presence of effloresce or sulphates, please contact the Technical Department of Fornaci Calce Grigolin S.p.A.

## Disclaimers

Do not apply AquaTutor® GRIGOLFLEX FIBRA at temperatures below 5°C and above 30°C, or which might go below 5°C within the next 24 hours. In normal conditions, wait for at least 7 days before contact with the water. Avoid contact with hydrocarbons.

*v. 11/2017*



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Grigolin evoluzioni costruttive