



## AQUATUTOR® GRIGOSTOP

One-component cementitious mortar, fibre-reinforced for flexible waterproofing and concrete protection.



### Description

AQUATUTOR® GRIGOSTOP is a one-component, crack-bridging, fibre-reinforced mortar, based on cement modified with special alkali-resistant polymers. AQUATUTOR® GRIGOSTOP is suitable for application by brush or trowel.

### Fields of use

- Flexible waterproofing and protection of concrete structures including tanks, basins, pipes etc.
- Waterproofing of bathrooms, showers, terraces, balconies, swimming pools before the application of ceramic tiles bonded with adhesives
- Waterproofing of external wall surfaces to be backfilled in ground
- Inside waterproofing of negative water pressure of walls and floors in basements
- Flexible protection coating for reinforced concrete structures against the effects of freeze-thaw and carbon dioxide attack to improve durability

# GRIGOSTOP

## Characteristics / Advantages

- One-component product, only water needs to be added
- Adjustable consistency, easy to apply by brush or trowel
- Suitable for direct exposure to weathering
- Good sag resistance and easy to apply, even on vertical surfaces
- Good crack-bridging ability
- Very good adhesion on many substrates including concrete, cement mortars, stone, masonry
- Can be applied on damp substrates

PRODUCT INFORMATION	
Composition	Cement modified with alkali resistant polymers, selected aggregates, fine fillers admixtures, additives and fibres.
Packaging	20 kg bags
Appearance / Colour	Light grey
Shelf life	12 months from date of production
Storage conditions	Store properly in the original packaging, in cool and dry conditions. Protect from water
Maximum Grain Size	Dmax: ~ 0.3 mm

## Substrate preparation

### Substrate quality / Pre-Treatment

Substrates must be structurally sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, coatings and other surface treatments etc. Cement based screeds must have proper control joints according to current regulations.

Clean surfaces by blast cleaning, high-pressure waterjetting (400 bar), wire-brushing, grinding etc., in order to remove all previous coatings, any traces of grease, rust, release agents, cement laitance and any other material which could reduce adhesion. All dust deposits from this preparation must also be removed i.e. by vacuum.

Repair concrete substrates, if necessary, with an appropriate cementitious mortar of the GALILEO product line from Fornaci Calce Grigolin.

The substrate shall be adequately dampened before application. The surface shall not be moist to the touch and shall not be the dark matte (saturated surface dry) appearance.

## Product preparation

AQUATUTOR® GRIGOSTOP can be mixed with a low speed (~ 500 r/min) hand drill mixer, adding the right quantity of water according to the respective application.

Once a homogeneous mix is obtained, continue mixing for 3–4 min. The mortar must be homogeneous and lump free. Do not add any additional water or other ingredients. Each bag must be entirely mixed, to avoid faulty particle size distribution of aggregates contained in the powder component.

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## Application

Apply AQUATUTOR® GRIGOSTOP by:

- spatula/roller: Exerting good and even pressure onto the substrate;
- brush: In 2 directions (diagonally opposite / crosswise);

The optimum waterproofing performance is obtained by applying AQUATUTOR® GRIGOSTOP by trowel in at least 2 layers, to a total thickness of at least 3 mm.

Application by brush must be undertaken with the maximum attention to uniformly covering the whole surface. The maximum recommended thickness for these methods of application is 1 mm per layer. In these situations, the application of min. 2–3 layers is required (subsequent layers must be applied crosswise).

Wait until the first layer is dry before applying subsequent layers.

The application shall cover the whole surface of the substrate in a uniform thickness.

AQUATUTOR® GRIGOSTOP cannot be smoothed using float or sponge trowel. It is possible to smooth the surface as soon as the curing of the product is complete by light abrasion techniques.

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## Cleaning of Equipment

Tools should be thoroughly cleaned with water before the material has set. Hardened mortar can only be removed mechanically.

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## Warnings

- AQUATUTOR® GRIGOSTOP shall not be smoothed using a float or trowel
- Protect from rain for at least 24–48 h after application.
- Avoid direct contact with chlorinated water i.e. in swimming pools, by using suitable protection.
- Avoid application in direct sun light, when rain is imminent or in strong winds.
- Setting time can be influenced by high relative humidity, particularly in closed rooms or basements. The use of adequate ventilation is recommended.
- Before contact with drinking water, ensure the AQUATUTOR® GRIGOSTOP is completely hardened respecting the suggested waiting times and wash carefully to remove dust, loose material or stagnant water, according to local regulations.
- AQUATUTOR® GRIGOSTOP is permeable to water vapour and does not form a vapour barrier for resin based systems not permeable to gas.
- If a solvent based paint is to be applied on AQUATUTOR® GRIGOSTOP, carry out preliminary testing in order to ensure the solvents do not attack and damage the waterproofing layer.
- When used in contact with drinking water, ensure all products comply with the local regulations for drinking water contact.

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

# GRIGOSTOP

TECHNICAL DATA	PERFORMANCES	STANDARD	
Tensile Adhesion Strength	~ 2,6 MPa	Value obtained with a total layer thickness of 3 mm in two layers with 22 % water	(EN 1542)
	~ 1,15 MPa*	After 12 months contact with salted water	(EN 1542)
	~ 2,2 MPa*	Initial	(EN 14891 A.6.2.)
	~ 1,6 MPa*	After water contact	(EN 14891 A.6.3.)
	~ 3,0 MPa*	After heat aging	(EN 14891 A.6.5.)
	~ 1,1 MPa*	After freeze-thaw cycles	(EN 14891 A.6.6.)
	~ 1,3 MPa*	After contact with lime water	(EN 14891 A.6.9.)
	~ 1,1 MPa*	After contact with chlorinated water	(EN 14891 A.6.7.)
	* Values obtained with a total consumption of 3,6 kg/m <sup>2</sup> in two layers with 30 % water		
Crack Bridging Ability	Static: Class A3	+23°C	(EN 1504-2)
	~ 0.55 mm	+23°C	(EN 1062-7)
		Value obtained with a total layer thickness of 3 mm in two layers with 22% water	
	~ 0.95 mm ~ 1.38 mm(1)	+23°C	(EN 14891 A.8.2)
	~ 0.91 mm ~ 1.32 mm(1)	-5°C	(EN 14891 A.8.3)
	Value obtained with a total consumption of 3,6 kg/m <sup>2</sup> in two layers with 30 % water (1) Reinforced with mesh		
Reaction to Fire	Euroclass A2		(EN 13501-1)
Freeze Thaw De-Icing Salt Resistance	~ 2.4 MPa	Value obtained with a total layer thickness of 3 mm in two layers with 22 % water	(EN 13687-1)
Behaviour after Artificial Weathering	no swelling, no cracking (2000h UV rays & condensation)		(EN 1062-11,4.2)
Permeability to Water Vapour	Class I (permeable) SD = ~ 2.91 m	Value obtained with a total layer thickness of 3 mm in two layers with 22 % water	(EN 1504-2) (EN ISO 7783)
Capillary Absorption	~ 0,02 kg m <sup>-2</sup> h <sup>-0.5</sup>	Value obtained with a total layer thickness of 3 mm in two layers with 22 % water	(EN 1062-3)
Water Penetration under Pressure	No penetration	5 bar dopo 72h (1)	(UNI 12390-8)
	No penetration	1,5 bar dopo 7 giorni (2)	(EN 14891 A.7)
	(1) Value obtained with a total layer thickness of 3 mm in two layers with 22 % water	(2) Value obtained with a total consumption of 3,6 kg/m <sup>2</sup> in two layers with 30 % water	

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

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TECHNICAL DATA	PERFORMANCES	STANDARD
Water Penetration under Negative Pressure	No penetration	2,5 bar dopo 72 ore (UNI 8298-8)
	Value obtained with a total layer thickness of 3 mm in two layers with 22% water	
Permeability to Carbon Dioxide	SD = ~ 61 m	Value obtained with a total layer thickness of 3 mm in two layers with 22 % water (EN 1062-6)

APPLICATION		
Mixing Ratio	Application Method	Water dosage
	By roller	~7,0 litres water per 20 kg bag
	By brush	~6,0 litres water per 20 kg bag
	By trowel	~4,4 litres water per 20 kg bag
Fresh Mortar Density	~ 1,5 kg/l (dell'impasto)	
Consumption	This depends on the substrate roughness; as a guide: ~1,2 kg/m <sup>2</sup> /mm	
Layer Thickness	3 mm with constant thickness, applied in minimum 2 layers. Maximum recommended thickness per layer is: 2 mm when applied by trowel 1 mm when applied by brush	
Ambient Air Temperature	+ 5 °C min. / + 35 °C max	
Substrate Temperature	+ 5 °C min. / + 35 °C max	
Pot Life	~ 60 min. a +20 °C	

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