

# GRIGOCEM

Waterproof rigid coating, mono-component, with osmotic action, based on cement and acrylic polymers, for the treatment of concrete structures and masonry.



## Product description

GRIGOCEM is a premixed powder, ready-to-use, which, mixed with water or a mixture of water and PRG10, results in a waterproof coating with high adhesion to the surface, resistant to abrasion and shock and permeability to water vapor. GRIGOCEM 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. GRIGOCEM 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. GRIGOCEM is available in 25 kg bags.

## Supply and Storage

Packaging: 25 kg bag



## Surface Preparation and Application

Verify the conditions of the surface: cast spars, gravel nests, cracks, holes for bolts of molds and surface defects, must be sealed, shaved and/or plastered with products from the GALILEO line. 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). GRIGOCEM should be mixed with a power drill at low revs. Always pour the water first (22% to obtain a spatulable product) and then the powder, mix for about 3-5 minutes until obtaining a creamy mixture, free of lumps. To improve its characteristics, mix the product with a combination of water and PRG10 (ratio 7:1).

Allow the dough to rest for about 5 minutes to allow for proper dispersion of the polymer. Before applying, mix again at low revs for about 30 seconds. Fully soak the surface with clean water and then remove the water in excess. Pay attention to excessively absorbant surfaces and, in case of limited smoothness of the product, repeat the operation. GRIGOCEM 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. The second layer should be applied after the hardening of the first one and after watering the surface with clean water. The final thickness should be of approx. 3 mm. In the case of the closed structures with limited ventilation, remove any traces of condensation.

## Technical data

Mixture specific weight	ca. 1900 Kg/m <sup>3</sup>
Impermeability to water (1.5 atm. per 7 days in positive slope) UNI EN 12390/8 mod.	waterproof
Capillary absorption and water permeability (EN 1062-3)	w < 0,1 kg/m <sup>2</sup> h <sup>0.5</sup>
Water vapor permeability coefficient	μ < 80 / s <sub>d</sub> < 2 m
Resistance to flexion (28 days)	> 4 MPa
Resistance to compression (28 days)	> 30 MPa
Dynamic elastic module	16000 ± 2000 MPa
Adhesion to concrete	> 1 MPa
Pot life	45 min
Final curing time	ca. 250 min
Water in the mix	ca. 5,5 liters
Consumption	approx. 1,5 kg/m <sup>2</sup> per mm of thickness

## Disclaimers

Do not apply GRIGOCEM at temperatures below 5°C and above 30°C, or which might go below 5°C within the next 24 hours. In case of strong winds or sunlight, protect the surface in the first few days after application. In normal conditions, wait for at least 7 days before contact with the water. If used in combination with PRG10, avoid contact with hydrocarbons.

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