

# GOLDENSEAL

## WATERPROOF CEMENT-BASED COATING

For waterproofing of concrete and masonry structures : durable, heavy-duty, seamless, micro-porous (breathable) with optimal adhesion. Fills and seals pores and voids. Waterproof even in situations with high positive or negative pressures (up to 10bar).

### Application:



5-6 litre  
WATER

- **Preparation:** Surface to be treated should be clean, structurally sound and free of any loose particles.
- **Mixing:** Prepare 5.2-6 litre of water in pail ; add one bag of 25 kg whilst mixing; mix with paddle mixer until lump free and homogeneous.



- **Application:** Saturate substrate thoroughly and remove excess water. Apply GOLDENSEAL by stiff fibre brush, or by spraying in two layers of 1mm. Apply second layer after 24 hours of cure of first layer, and at a right angle to the first layer.

▪ Addition of GOLDENCRYL polymer dispersion for improved adhesion and curing or in case of application in high temperature.

▪ Available in grey or white

### Packaging:

- GOLDENSEAL: 25 kg
- GOLDENCRYL: 5 litre



▪ Storage: 12 months shelf life when stored protected.



Simply mix  
with 5.2-6  
litre of water  
and apply !

technology  
↑

### Applications:

Tanking of basements

Water reservoirs

Tunnels

Swimming pools

Lift Pits

Concrete pipes

Water purification  
stations

Waterdams

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# GOLDENSEAL

## CEMENT-BASED WATERPROOF COATING FOR CONCRETE AND MASONRY

### DESCRIPTION

GOLDENSEAL is a cement based powder, modified with special additives, and which comes ready-to-use. Mixed with water, it cures to form a coating which resists the penetration of water. The product is available in different colours: grey, white. (red on request).

### ADVANTAGES

- Easy and fast in application, by trowel, brush or with conventional spray equipment
- Optimal adhesion to the substrate, and optimal durability.
- Extremely effective in waterproofing, even in situations with high positive or negative pressures.
- Water vapour permeable.

### USE

- As waterproof coating for constructions in concrete or masonry as reservoirs, swimming pools, and water purification stations.
- Waterproofing also in situations of high hydrostatical pressures, positive or negative.
- For the waterproofing of foundations, elevator shafts, retaining walls, or basements.

### APPLICATION

- **Preparation:** prepare the substrate so that the adhesion shall be optimal. Remove the deteriorated or contaminated parts; remove eventual rust on the reinforcement, preferably by sandblasting. Clean the substrate with high water pressure. Perform eventual structural repairs or smoothening of concrete. In situations that water infiltrates with pressure, the cracks or joints shall be sealed first with GOLDENPLUG T. Humidify the substrate thoroughly till saturation to eliminate the suction; the excess water shall be removed, prior to the application of GOLDENSEAL.
- **Mixing:** take 5,2-6 liter of water in a pail and add one bag of 25 kg whilst mixing. Mix with paddlemixer until lumpfree and homogeneous. Let it rest for 1 minute and mix again for 30 seconds.
- In case of application in high temperature, or when improved adhesion is required (smooth substrates), is it advisable to prepare the slurry with a mixture of 3 liter of water and 1 Kg of the polymer dispersion GOLDENCRYL. The addition of GOLDENCRYL to GOLDENSEAL secures the adhesion to the substrate in difficult circumstances, and improves the curing.
- **Application:** apply by stiff fibre brush or trowel, a first layer of 1 mm of GOLDENSEAL after the complete saturation of the porosity of the substrate, and the eventual treatment of leakages and cracks. The second layer, the finishing coat, can be applied with the same equipment, after 24 hours cure of the first layer. In case the second layer is applied after a longer period, it is advisable to modify the product with GOLDENCRYL.
- To avoid the evaporation of water in the curing period, the substrate of GOLDENSEAL should be kept wet, certainly in desiccating conditions like with high temperature, or wind. In case GOLDENCRYL has been used, the product shall be less sensitive to

drying out, so that these special measures can be avoided.

### PHYSICAL – MECHANICAL PROPERTIES

- |                                    |   |
|------------------------------------|---|
| • Density :                        | 2.0 kg/Lt   |
| • Maximum particle size:           | 0.7 mm  |
| • Initial setting time:            | 1 hour  |
| • Final setting time:              | 3 hours   |
| • Adhesion to the substrate:       | After 1 day: 0,6 N/mm <sup>2</sup><br>After 28 days : 2,9 N/mm <sup>2</sup> |
| • Elasticity modulus:              | 28 days 14000-16000 N/mm <sup>2</sup>                                       |
| • Compression strength:            | 1 day 12,5 N/mm <sup>2</sup><br>28 days 59 N/mm <sup>2</sup>                |
| • Flexural strength :              | 1day 3,8 N/mm <sup>2</sup><br>28 days 8,6 N/mm <sup>2</sup>                 |
| • Water vapour permeability ( μ ): | 80 ÷ 100  |
| • Salt spray:                      | no defects after 500 hours  |

### CONSUMPTION

Approximate 2,5 Kg/m<sup>2</sup> depending on the roughness and porosity of the substrate.

### LIMITATIONS

In case GOLDENSEAL\_ shall come in contact with gasoline, gas oil, .., do not use GOLDENCRYL as mixing liquid.

### PACKAGING

Bags containing 25 Kg powder.

### STORAGE

12 months shelflife when stored protected.

### PRECAUTIONS

Like all cement, lime, based products, skin and eyes can be irritated. Wear always gloves and safety glasses. Keep out of reach of children. Do not inhale the powder. In case of contact with eyes or skin, wash abundantly with water, and consult a doctor if irritation persists.

In case of doubt, check the safety datasheet.

### REMARK

The above data can be subject to changes . In that case, a new edition of this datasheet shall be edited. Use always the latest versions. No responsibility is taken for negative results, caused by external circumstances, other than the product quality.

Date of creation: 29.05.01

Date of revision: 28.09.2009



This information is based on our experiences and latest laboratory testing. The above information may be subject to modifications, which will be announced in the updated technical datasheets. Eventual changes to the information on top will be announced on [www.tecnochem.it](http://www.tecnochem.it) in which the technical datasheets are updated regularly and always the most updated can be found. Tecnochem Italiana cannot held responsible for poor results that are due to causes unconnected to the quality if the product or for defects deriving from factors different than the quality of the product including the wrong storage.