

# Paviglass Top Coat

Crystalline waterproofing on the surface

## Description

Chemical processing for the repair, waterproofing and protection of existing concrete.

Compost in the form of dry mortar, based on portland cements, siliceous sands of selected granulometries and active chemical additives, which is applied as a second layer on **Paviglass base coat**, to reinforce it chemically and provide a more resistant finish.

It can also be used in a single layer as an alternative to the application of bituminous emulsions.

## Common applications

Especially indicated in:

- Concrete brick factories
- Hydraulic structures
- Tunnels and mining
- Basements and car parks
- Docks and bridges
- Screen walls, slabs, or concrete screeds.
- Prefabricated concrete elements.
- Shotcrete
- Swimming pools and aquariums, treatment plants and/or desalination.
- Canals and aqueducts.
- Drinking water tanks
- Elevator pits
- Constructive cold joints.

## Properties

- Stops water leaks into the concrete at both negative and positive pressure.
- Seals and waterproofs small fissures.
- Protects reinforcement reinforcements against corrosion.
- Total and permanent waterproofing becomes an integral part of the concrete.
- Waterproof protection increases over time, thanks to its Hydrophilic-Catalytic technology.
- Excellent penetration into the concrete mass
- It is not affected by wear or surface abrasion.
- Excellent resistance to hydrostatic pressure at both positive and negative pressure.
- Permeable to water vapor
- Suitable for use in contact with drinking water.
- Can be used as a surface protector.

## Benefits

The active geo-polymers of the mortar are dispersed in the substrate through moisture and through a process called molecular diffusion, reacting with the existing moisture and the components of the hardened cement to provoke a catalytic reaction.

This reaction generates an insoluble formation of crystallization through the pores and capillaries of the concrete, as well as cracks, permanently sealing the concrete and preventing the penetration of water and other liquids from any direction, even in conditions of high hydrostatic pressure.

Is an active part of the support on which it has been applied, since it acts continuously and for life in the presence of water or moisture.

## Cleaning

Tools and work tools in a fresh state can be cleaned with water. If the material is hardened, it can only be cleaned mechanically.

### Technical data

Aspect	Grey powder
Bulk density	1302 gr/lt
pH (aqueous solution)	13
Penetration into concrete	5 mm/month
Initial Curing at 25 °C	60 minutes
Hydrostatic pressure resistance	50 mca
Self-sealing cracks	0,4 mm
Mixture dosage	5:2 (powder: water, in volume)
Capillary absorption and water permeability EN 1062-3:2008	$W \leq 0,09 \text{ kg/m}^2\text{h}^{0,5}$
Penetration depth EN 1766 + EN 13579 + EN 14630	$\geq 5,1 \text{ mm. CLASS I}$
Reaction to fire	EuroClase A1

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on the surface

## Specifications and form of application

Is one of the products that make up the repair system of existing concrete structures, which have water leaks, so it is applied as a second layer of reinforcement, on the basis already prepared with **Paviglass base coat**.

In case of direct application to the support and as a single substitute layer for bituminous emulsions, the following indications must be followed:

- The concretes to be treated must be clean and with the pore open.
- Remove surface grouts, lose or disintegrated parts, dust, dirt, greases, release agents, paints, etc.
- It is recommended to clean with sandblasting, pressurized water, steel barb brush, mechanical brushing with needle gun, etc.
- It is advisable to start the mixture with a part of the intended water and homogenize the product at low speed for a few minutes. Always follow the powder-on-water method, never water-on-dust.
- Later the rest of the water will be added until the required fluidity is obtained, mixing for a few minutes.
- The mixture will be made with a slow electric whisk or with a glass mixer, for a few minutes and, in any case, until obtaining a fluid, homogeneous paste, without lumps and with the consistency required for each case.
- The mixing ratio is 5 parts powder for 2 parts water, always in volume.
- You should only prepare the amount you can use within 20 minutes of mixing.
- The support must be moistened to saturation, without waterlogging, before the application.
- Once kneaded it can be applied with a brush, long hair roller or mechanical projection, in any case extend until it covers the entire surface homogeneously.

### Important:

- During application shake the mixture frequently.
- If the mixture is consistent in the container, do not add more water, beat again, and recover the initial consistency.
- During the 3 days following the application and once the initial setting of the product has begun, it must be cured, by spraying sprayed water 2 or 3 times a day. In conditions of excessive heat or wind increase twice the times of spraying, that is, between 4 and 6.
- To achieve maximum penetration of the crystals into the concrete structure, the surface to be treated must be saturated with water before and after application.

### ⚠ IMPORTANT

The observations and requirements of this data sheet, even if they correspond to our best experience, must be considered, in any case, purely indicative, and must be tested by exhaustive practical applications; therefore, before if you use the product, whoever is going to do so must establish whether or not it is suitable for the intended use, and assumes any responsibility that may arise from its use. Once the product has been handled or applied, the manufacturer will not assume any claim, nor the responsibility as to the form, mode and conditions of application.



## Packaging

Bags of 25 kg  
Pallet of 1200 kg (48 bags)

## Desage and Consumptions

The dosage of is:

- From 0.5 to 0.8 kg/m<sup>2</sup> per layer applied as a surface and reinforcement treatment on the already prepared base of **Paviglass base coat**.
- The consumptions are theoretical and depend on the roughness of the support and other conditions of each work.
- To determine the exact consumptions, previous tests must be carried out on site.

## Storage

Protect from solar radiation and extreme temperatures. In tropical climates the product should be stored in a cool place.

In cold climates the product should be stored at a temperature  $\geq 5^{\circ}\text{C}$ .

The mortar has a duration of 1 year from its date of manufacture, if stored correctly and in its original packaging.

## Health and safety

Is an alkaline product, contains cement.



- Irritates the skin, eyes, and airways
- Avoid contact with eyes and skin.
- Use labor protection measures, such as mask, gloves, and goggles.
- Keep out of reach of children.
- More information, see safety data sheet (FDS).