

# Paviglass Barrier Coat

Fast setting crystalline waterproofing mortar

## Description

**Paviglass barrier coat**, is a mortar fast setting waterproofing, especially designed to make plasters and/or membranes waterproof, as well as repairer of cracks, holes and joints in the concrete.

Contains a Hydrophilic-Catalytic technology based on Geopolymers and reacting active ingredients chemically with concrete forming millions of insoluble crystals, which fill pores, capillaries and seal the cracks of the concrete, blocking the passage of the water.

It is mixed with water and a plastic mortar is obtained that immediately stops leaks or leaks of water flowing through the pores and cracks in concrete or masonry, creating a watertight and completely waterproof seal, which continues to harden until it reaches very high resistances.

It is the first product or basic product to be applied in the repair system of existing concrete structures (**Paviglass Dry System**), which present water leaks, as well as for the sealing of construction joints, or for the repair of cracks with filtration, defective construction joints and others defects.

## Properties

- Especially suitable for stopping water leaks superficial, as it seals them immediately.
- Applicable on wet surfaces that present "sweating"
- Waterproofs both positive and negative pressure.
- Suitable for concrete constructions and masonry.
- Protects armor against corrosion
- Compressive strength higher than that of one's own concrete.
- Withstands wear or surface abrasion.
- Permeable to water vapor
- Suitable for use in contact with drinking water.

The active geo-polymers 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 cause 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 concrete and preventing the penetration of water and other liquids from any direction, even in conditions high hydrostatic pressure.

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

## Joint treatment

The joints between the different concrete elements that make up the slab-slab structure, wall-wall, slab-wall, pipe steps, through holes (sprats), etc., must be treated in accordance with our recommendations according to the Technical Bulletin of Application (BTA-1027) (TJS) **Paviglass joint system**.

## Conditions of execution

**"SLURRY"**, for waterproof grouts:

- The mixing ratio is 5 parts powder for 2 part of water, always in volume.
- You should only prepare the quantity you can use during the 10 minutes following the mixture, since the setting is very fast.
- Apply a first layer on the surface previously moistened, with a brush or roller, it is important to perform it is first layer in the same direction.
- When the first layer is starting to dry, apply a second layer in a cross-direction to the previous one. It's not it is necessary to moisten the first one, unless the ambient temperature outside very high, in that case you must spray the applied surface with water to facilitate hydration of the product.
- You can apply as many layers as necessary up to achieve the desired thickness.

## Cleaning

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

## Technical data

- Appearance: gray powder
- Bulk density: 1.286 gr/lit.
- pH: 13 (aqueous solution)
- Penetration into concrete: 2mm/month
- Initial Curing at 25 °C: 20 minutes
- Compressive strength: 45 Mpa
- Tensile strength: 3 Mpa
- Flexural strength: 7 Mpa

*\* These results have been obtained under standard conditions and may vary depending on the commissioning.*

## Applications

Especially suitable for:

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

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## Specifications and form of application

- The concretes to be treated must be clean and with the open pore.
- Remove surface grouts, loose parts or disintegrated, dust, dirt, greases, release agents, paintings, etc.
- It is recommended to clean with sandblasting, water to pressure, 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 obtain the required fluidity, mixing for some minutes.
- The mixture will be made with slow electric whisk or with a glass mixer, for a few minutes and, in any case, until a fluid, homogeneous paste is obtained, without lumps and with the consistency required for each case.

“**DRY PACK**”, for waterproof plasters:

- The mixing ratio is 4 parts paviglass barrier coat, for 1 part of water, always in volume.
- You should only prepare as much as you can use during the 10 minutes following the mixture, already that the setting is very fast.
- Before the application of **Paviglass barrier coat**, the support must be moistened to saturation, without waterlogging.
- Apply a first layer about 2 mm thick, pressing the material firmly against the support to ensure adherence, then with the help of a metal trowel, apply the successive layers and required up to a maximum thickness of 15 mm per cloak.

### Important:

- In the event of abundant water outlets, the powder mortar directly on the surface to be sealed, by direct sprinkling on the surface, being the water from the leak that reacts with the mortar.
- In the case of leaks and significant water flows, first use **Paviglass plug**, for stop the waterway and then perform the treatment.
- Once **Paviglass barrier coat** has been placed, and before it has completely hardened, remove the excess material to make up the surface.
- High temperatures decrease working time, low temperatures delay it.
- After having correctly applied the mortar, apply the surface treatment (PDS). **Paviglass dry system**, to complete waterproofing on existing structures.
- For more information on applications, see the Technical Bulletins **Paviglass concrete**.

### ! IMPORTANT

The observations and prescriptions of this data sheet, although corresponding to our best experience, should be considered, in any case, purely indicative, and should be tested by exhaustive practical applications; therefore, before using the product, the user must establish whether or not it is suitable for the intended use, and assumes all liability that may arise from its use. Once the product has been handled or applied, the manufacturer shall not assume any claim whatsoever, nor any liability as to the manner, mode and conditions of application.

## PAVIGLASS BARRIER COAT

MORTERO  
IMPERMEABILIZANTE  
CRISTALINO DE  
FRAGUADO RÁPIDO

Pavistamp®

### Packaging

Bag of 25 kg  
Pallet (48 bags) 1200 kg

### Color

Gray

### Consumption

As a mortar: 0.5-08 kg/m<sup>2</sup> (1 layer)  
As a joint filler: ±2 kg (depending on depth)

### Conservation

Original container closed, free from weather and humidity: 1 year

## Health and safety

**Paviglass barrier coat** 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)