

Paviglass Base Coat

Crystalline chemical treatment on the surface

Description

Paviglass base coat, is a chemical treatment for the repair, waterproofing and protection of existing concretes.

Is a compound in the form of a dry mortar, based on portland cements, siliceous sands of selected granulometries and active chemical additives that is applied as a cementitious mixture on the surface, previously saturated with water, in existing structures both above and below ground level.

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 screed.
- Prefabricated concrete elements
- Gunned concrete
- 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 crack up to 0.7 mm under optimal concrete design conditions.
- Increases the compressive strength of the concrete.
- 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.
- Gives concrete excellent resistance to the attack of sulfates and chlorides.
- It is not affected by wear or surface abrasion.
- Excellent resistance to hydrostatic pressure at both positive and negative pressure. 140 m.c. a.
- Suitable for use in contact with drinking water.
- Completely replace conventional waterproofing systems.

Joint treatment

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

Paviglass joint system.

Benefits

The active geo-polymers of 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 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 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	Gray powder
Bulk density	1202 gr/lt
pH (aqueous solution)	13
Penetration into concrete	10 mm/month
Initial Curing at 25 °C	60 minutes
Hydrostatic pressure resistance	140 mca
Self-sealing cracks	0,7 mm
Mixture dosage	
Dry pack	4:1 (powder: water, in volume)
Slurry	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	$\geq 5,2 \text{ mm. CLASS I}$
Reaction to fire	EuroClase A1

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Specifications and form of application

Paviglass base coat, is one of the products that make up the repair system of existing concrete structures, 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 other defects.

Normally it is applied on the basis already prepared with **Paviglass barrier coat**, so in case of direct application to the support 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, molding 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.
- **"DRY PACK"**, or semi-dry mortar or as a component of the system (P.J.S.)
- **Paviglass joint system.**
The mixing ratio is 4 parts of powder per 1 part of water, always in volume.
- You should only prepare the amount you can use during the 20 minutes following the mixture, since the setting is relatively fast.
- Before the application of the mortar, the support must be moistened to saturation, without waterlogging.
- Apply with manual tool (metal trowel, spatula, etc.) homogeneously covering the surface.
- **"SLURRY"**, for grouts that are impermeable in the system: (Paviglass dry system),
- The mixing ratio is 5 parts mortar to 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 of the mortar.
- Once kneaded it can be applied with brush, long hair roller or mechanical projection, in any case, extend to cover 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, the mortar 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

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

Dosages and Consumptions

- 1 kg/m² per layer, applied as a surface treatment type "Slurry" or grout.
- 1 kg/m applied in the form of a "Dry pack" as a component of the system (P.J.S). **Paviglass joint system.**
- 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

It 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).