Pavistamp

3C Photocatalytic Pavement

Photocatalytic mortar in cement base for pavement finish



Product

- Eliminate pollution.
- Avoid fungi and bacteria growth.
- Eliminate odors in the air.
- Enable families to live in a healthy environment.
- Reduces the environment temperature due to its clear colors and porosity.

Photocatalysis

- It is a technology analogous to photovoltaic solar panels.
- It uses light energy to destroy pollutants produced by automobiles and industries, which affect people's health and pollute the environment.
- It does not require maintenance, and its effect is permanent.
- It is a clean technology.
- Not only does it not pollute, but it cleans the polluted air.
- It is the only environmental technology in which the first beneficiary is the user.
- Saves costs as the walls remain clean for many years.
- Destroys dirt and prevents the growth of microorganisms.

Technical characteristics

- Three component photocatalytic mortar for pavement preparation in order to environmentally improve the urban ambient.
- Appearance:
 - A) Thin dust
 - B) Resins dispersion
 - C) Photoactiva S. Photocatalytic Emulsion
- Mixture density 1,2 kg/l
- Yield:
 - **Mixture 1.5-3.5 (2mm) Kg/m2
 - *Dust 1.0-2.3 kg/m2
 - *Resin 0.5-1.2 Kg/m2
 - **PhotoActiva S 0.1 Kg/m2
- Application time 2 hours
- Dry touch 5-7 hours with 25 oC
- Maximum thickness per layer 1 mm
- Cured time 48 hours (20oC)
- Adherence EN1015/12 0.98 N/mm2
- Water absorption 0.004 g/cm2
- Frost thaw 0.1 Kg/cm2

* Contains recycled material. Careful with the environment.

Results

 Essays according ISO 22197-1 performed over our fnish show an average elimination ability of 2620 μmol NOx/m2.



Applications

- Use in areas with polluted air, in buildings and areas sensitive to people's health: streets, walkways, bike paths, parks and gardens, public areas and sports areas.
- Superb finish for all types of pavements.

Finishes

Smooth or rough.

Thicknesses

Recommended: 2 mm.

Recommendations

- Application temperatures 5°C to 30°C.
- The percentage of water may vary according to the mixer used.
- The substrate must be clean of efflorescence, grease, dust or loose elements, and must be sufficiently resistant to withstand the expected traffic.
- Do not apply if heavy rain is expected in the next 24 hours.
- Avoid application in strong wind, rainy or very humid weather, with risk of frost or direct sunlight.

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Application way

1. Colored fllexible surface application

3C Photocatalytic Pavement does not need water. It is mixed the component A (dust) with the component B (resin) in a proportion from 2 Kg to 1 Kg respectively, using low speed electric mixers, until obtaining a homogeneous paste. Over clean, compact and porous surfaces, it is recommended to humidify correctly the application support before the application.

Over surfaces where adherence problems are previewed and particularly over surfaces with asphalt, it is required to apply a **Primer 3C** layer diluted 1:4 with water, after having prepared conveniently the surfaces opening porous.

3C Photocatalytic Pavement is applied in two layers with 1 mm each one, compacting each layer conveniently. The support must be clean from efflorescence, greases, dust or loose elements and has to be sufficiently resistant to support the previewed traffic. Avoid application with very elevated temperatures or if it is sunny or in case of frost. Let it cure 48 hours (with 20 °C)

3C Photocatalytic Pavement requires humidity for its correct cured process. If the surfaces are dried very quickly or the weather is very hot or dry, it is recommended to give humidity during the cured process. Final recommended thickness is 2 mm.

Although the product has a magnificence adherence over most of the supports, it is recommended to make tests before the definitive application. Expansion joints on the support layer must be respected .

3C Photocatalytic Pavement can be left in a smooth or wrinkled finish.

2. High efficiency photocatalytic finish

Once the flexible colored surface has been applied and before being cured, when it I still fresh, the third component is applied **PhotoActiva S**, with pistol, in a dosage from 100 gr /m2.

Improving thus the cured characteristics, and giving the photocatalytic characteristics to the pavement converting the system to three components, **3C Photocatalytic Pavement**, in a powerful environment improvement and health protection

PhotoActiva S contribute to the correct pavement cure process

Photocatalysis is a surface activity. Particles receiving light are the only ones active.



Packaging

Dust sacks 25 Kg Resin containers 25 Kg PhotoActiva 10 liters tanks

Color

According to demand (available 56 colors)

Consumption

Mixture 1.5-3.5 (2mm) Kg/m2 Dust 1.0-2.3 kg/m2 Resin 0.5-1.2 Kg/m2 PhotoActiva S 0.1 Kg/m2

Conservation

In sealed original packaging, protected from weather and humidity: 1 year

🕂 IMPORTANT

All data given in our technical information and recommendations are based on our experience, technical knowledge, and practice, under established job and test conditions Customer must check consumptions and suitability under his particular job conditions, by previously testing it. Active can provide technical assessment if required. We guarantee the quality in case of production defects of our products, excluding further claims. Our responsibility is limited to the value of the goods supplied. That technical data sheet is valid until next edition is issued