3C Stucco Photocatalytic

Photocatalytic mortar finish

With surface activity enhancers in the UVA- Visible range, based on EPS technology.

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 facades fnish and to environmentally improve the urban ambient.
- Appearance:
  A) Thin dust
  B) Resins dispersion
  C) Photoactiva S. Emulsion Photocatalytic
- 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 finish show an average elimination ability of 2620 µmol NOx/m2**

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Contains photocatalytic elements distributed in a homogeneous way on the surface and anchored to it, improving its air cleaning capacities. It is presented in different colors, and it is a magnificent finish for all kind of façades, such as buildings, schools, hospitals, kindergartens or parks improving the air quality and the ambient temperature

Applications

- Use in areas with polluted air, in buildings and areas sensitive to people's health: homes, public buildings, commercial areas, schools, hospitals, sports centers.
- Superb finish for all types of facades, such as buildings, schools, hospitals, kindergartens, gardens or parks, improving air quality and ambient temperature.

Finishes

- Fine or rough.

Thicknesses

- Recommended: 2 mm.

Recommendations

- Application temperatures 5ºC to 30ºC.
- 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.

Important

- Photocatalysis is a surface activity. Only particles that receive light are active.

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Application

1. Flexible surfaces, resistant and fresher

3C Stucco Photocatalytic does not require water addition. Dust is mixed with resin in a proportion from 2 kg dust and 1 kg resin. It is mixed mechanically at low speed until obtaining a homogeneous mixture. It is required to humidify the surfaces before the product application.
3C Stucco Photocatalytic is applied in two coats with maximum 1 mm each one, over clean, smooth and without greases, efflorescence, or loose elements surfaces. Application should be avoided in high temperature moments or directly under the sun, to avoid a too quick dryness. 48 hours are required for a correct cured process with 20 ºC.

3C Stucco Photocatalytic requires humidity to cure correctly. If the surface gets dry too quickly or the weather is dry and hot, it is recommended to humidify after the application. Recommended final thickness is 2 mm. Although the product presents an elevated adherence over most of the substrates, it is recommended to make test before its application. The primer **Stucco Primer** is recommended in cases in which adherence problems are to be previewed.

It is recommended to respect the substrate expansion joints.

3C Stucco Photocatalytic can have thin and wrinkled finish

2. High efficiency photocatalytic finish

Once the flexible, resistant and fresh layer has been applied, before the cured process, while it is fresh, the third component, **PhotoActiva S** is applied with a spray, a dose of 100 g/m2, giving photocatalytic properties to the finish and converting it into a magnificent environment and healthy tool.

PhotoActiva S contributes to the correct cured process from **3C Stucco Photocatalytic.**

Photocatalysis is a superficial activity. Only illuminated surfaces are actives.

Packaging

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

Colors

Depending on demand
(56 colors available)

Consumption

**Mixture 1.5-3.5 (2mm) Kg/m2
*Powder 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.