

# 3 C Photocatalytic

# Stucco

# activa

updated 04/2014

## Photocatalytic cement based Stucco finish

**3C PHOTOCATALYTIC LT STUCCO** uses light energy to destroy airborne pollutants. Thus:

- **ELIMINATES** contamination
- Prevent the growth of fungi and bacteria
- Eliminate odours **IN AIR**
- Enable families to live in a healthy environment
- Reduces average city temperature thanks to its light colours and porosity

**3C PHOTOCATALYTIC LT STUCCO** has Photocatalytic elements regularly distributed on the surface, improving its air cleaning power. Presented in different colours, on request, is a magnificent finish for renewal of all kind of façades, having excellent adherence, flexibility, and it allows the buildings to breath, improving air quality and temperature

**3C PHOTOCATALYTIC LT STUCCO** is used in city centres, in air polluted areas and in buildings and equipments sensitive to people's health:

- Homes
- Public Buildings
- Commercial areas
- Schools
- Hospitals
- Sport Centres

## -PHOTOCATALYSIS

Photocatalysis is a technology that works under the same principles than Photovoltaic Panels (Solar cells). It uses light energy, in the range between visible and UVA, to destroy the pollutants produced by car exhausts pipes, industries, kitchens and heating, that affect human health and dirt

- It is **MAINTENANCE FREE**, and its effect is **PERMANENT**.
- It is a **CLEAN TECHNOLOGY**
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- It is not only a **SURFACE CLEANER**, it is an **AIR DEPOLLUTER**
- **SAVES MONEY**, as surfaces remain clean during years
- **DESTROYS** the **DIRT** and reduces the growth of **MOULDS AND BACTERIA**

It is a **NATURAL** effect, and reproduces the activity of the sun and plants as depollutant

## -THE RESULTS

Tests based on ISO standard 22197, highlight an exceptional pollution destruction capacity of our top component: **2620 µmol NOx/m<sup>2</sup>**,

**Healthy Environment  
Low Pollution  
Fresher cities**

## -APPLICATION

### 1.-Flexible and resistant cold surface

**3C PHOTOCATALYTIC LT STUCCO** doesn't require water addition. Powder is mixed with the resin at a ratio of 2 kg of powder and 1 kg of resin. . It is mixed using electrical mixer, at low speed, until the mix is homogeneous. On all surfaces, it is required to moisten before product application.

**3C PHOTOCATALYTIC LT STUCCO** is applied in two coats of maximum 1 mm each, on clean, smooth and free from efflorescences. Avoid application under hot temperatures or strong sun. Allow 48 hrs for a correct curing at 20 °C.

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**3C PHOTOCATALYTIC LT STUCCO** needs moisture for proper curing. If the surfaces dry too fast or the weather is hot and dry, it is recommended to keep moisture after application. The recommended final thickness is around 2 mm

Although the product is design to have very good adherence to the majority of supports, it is advised to test adherence before application. **STUCCO PRIMER** is advised in case adherence is compromised It is advised to respect all kind of dilatation joints existing in the support layer



**3C PHOTOCATALYTIC LT STUCCO** can have a rough or smooth surface.

## 2.-Phtocatality high performance finish

Once the flexible and resistant cold surface has been applied, before the curing , when it is still fresh, the third component, **PHOTOACTIVA S** is sprayed on top, at a ratio of 100 g/m<sup>2</sup>, providing the pavement surface the photocatalytic properties that will convert the 3 components system into a powerful environmental and health tool.

**PHOTOACTIVA S** will help the correct curing of the Stucco

Photocatalysis is a superficial activity. Only illuminated particles are active.

## TECHNICAL DETAILS

3 Components photocatalytic cement /acrylic stucco for urban environmental improvement.

- Appearance:
  - Powder admixture
  - Resin dispersion
  - Photocatalytic emulsion
- Mix density 1.2 kg / l
- Pigmented on request. 56 colours available
- Yield:
  - Mix 1.5 - 3.5 Kg/m<sup>2</sup> (2 mm thick)
    - Powder admix. 1.0 - 2.3 Kg/m<sup>2</sup>
    - Resin dispersion 0.5 - 1.1 Kg/m<sup>2</sup>
  - PhotoActivas S 0.1 Kg/m<sup>2</sup>
- Mix application time 2 hrs
- Dry touch 5-7 hrs 25 °C
- Max Thickness by layer 1 mm
- Total thickness max 2mm
- Curing time 48 hrs (20°C)
- Adherence EN 1015/12 0.98 N/mm<sup>2</sup>
- Water absorption 0.004 g/cm<sup>2</sup>
- Freezing/thawing 0.1kg/cm<sup>2</sup>
- Application temp.: between 5 ° C and 30 °C
- Do not apply if rain is foreseen in the next 24 hrs
- Store in dry areas.
- Shelf life 12 months for the admixture
- Admixture: 25 Kg bags
- Resin: 25 Kg Containers
- PhotoActiva S : 10 l canisters

It Contains Recycled Material: we care for the environment

**3C Photocatalytic Stucco: Photocatalytic finishing for façades, having enhanced photocatalytical superficial activity in the UVA-visible range, based on EPS Technology, applied on a resistant and flexible acrylic mortar. The combination results in a reduction of air pollution and average temperature, depending on surface colour**

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. Activa can provide Technical assessment if required.  
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