# CristalClean *activa*

Transparent Waterborne Photocatalytic dispersion for the protection of Glass, Photovoltaic Panels, and Inorganic Surfaces.

A **Cristal Clean** activated surface uses the light energy to destroy the air pollutants and dirt. Thanks to it:

- ELIMINATES THE AIR POLLUTION
- MAINTAINS THE SURFACE OF BUILDINGS and MONUMENTS CLEAN. Even glass surfaces.
- ELIMINATES THE POLLUTED AIR AGRESSIONS.
- REDUCES MAINTENANCE COSTS.
- IMPROVES APPEARANCE
- CONTRIBUTES TO PEOPLE'S HEALTH

Cristal Clean is used on surfaces submitted to polluted environments, mainly in urban or industrial areas where traffic and chemical pollutants are concentrated. **Cristal Clean** contributes to reduce pollution, to keep surfaces clean, and to reduce odours, also limits the growth of moulds and bacteria, once applied on:

- Glass
- Solar panels (photovoltaic panels)
- Monuments
- Historical buildings
- Indoor surfaces
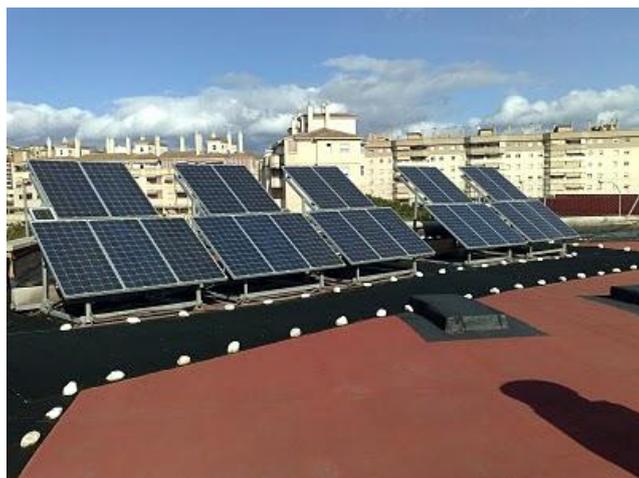
- PHOTOCATALYSIS

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
- 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
- Is a NATURAL effect, and reproduces the activity of the sun and plants as depollutant.

Clean Air, Healthy and Clean Buildings

-APPLICATION

Cristal Clean is currently applied as a mist, by spray gun, with a 0, 3 mm nozzle and low pressure. Creation of drops, or product accumulation, should be avoided. Surfaces must be clean and dry. An application of 25-50 gr/m_2 is recommended. (as a light mist on the glass that disappears while drying).

In some cases **Cristal Clean** may be applied by a wet wiper, to avoid the negative effect of wind, or the difficulty in setting the spray gun in small surfaces

Cristal Clean doesn't form a film. **Cristal Clean** is applied on Glass, Natural stone, Marble, Ceramics, Concrete, etc…
Once applied, it develops adherence during the initial days.

Photocatalysis results after three years on a road sign

Self Cleaning properties on Glass and Photovoltaic. Despite the photocatalytic effect will not destroy inorganic dust accumulated on the glass or on photovoltaic surfaces, in cases where this was the main problem it has been reported an improvement in the cleaning operations due to the destruction of oils and greases that act as dust binders. It is recommended to test product performance in the actual field conditions

-TECHNICAL DATA

Waterborne photocatalytic dispersion for the reduction of pollutants and protection of surfaces in highly contaminated areas.

- No flammable. Waterborne
- Transparent
- Appearance: low viscosity milky liquid
- Does not create a film
- Yield: around 20 m2/lt. once applied by spray gun
- Application temperature: between 5ºC and 35ºC
- Protect from frost.

Photocatalysis requires light energy to be activated. Natural light, fluorescent, or incandescent bulbs are, in that order, suitable to activate the surfaces

CristalClean. Transparent Waterborne dispersion of Photocatalysts containing light boosters based on EPS technology to be activated in the visible-UVA light range, and adhesion promoters to improve adherence on limited porosity inorganic surfaces.