

Photocatalytic Waterborne White Coating for Tunnels.

A **PHOTOTUNNEL**® activated surface uses the light energy to destroy the air pollutants. Thanks to it:

- ELIMINATES AIR POLLUTION
- MAINTAINS WHITE COLOR ON THE SURFACE OF TUNNELS.
- ELIMINATES POLLUTED AIR AGRESSIONS.
- REDUCES MAINTENANCE COSTS.
- IMPROVES APPEARANCE
- CONTRIBUTE TO THE HEALTH OF PEOPLE
- IMPROVES SAFETY
- DIMINISHES LIGHTING COSTS
- INCREASES VISIBILITY.
- ELIMINATES ODOURS

PHOTOTUNNEL® is used to white coat the inner walls of tunnels and internal surfaces in highly polluted environments. It is used to reduce pollutants, reduce cleaning and lighting costs, and improve safety and visibility.



Tunnel with blue UV fluorescent tubes to activate the cleaning effect

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

Photocatalytic activity is initiated by light, progressively, during the days following the application, and is maintained during years. To obtain immediate initiation, it is recommended to spray 40/50 gr/sqm of PhotoActiva S on PhotoTunnel surfaces

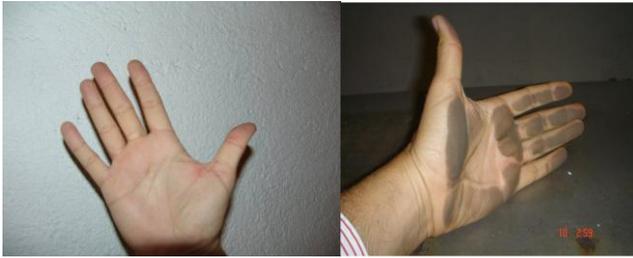
Health, Safety, Savings, and Environment

-APPLICATION

PHOTOTUNNEL® is applied by spray gun, brush or roller on clean, dry and sound surfaces, in two coats. A primer as **PHOTODECO**® PRIMER, is strongly recommended. **PHOTOTUNNEL**® can be diluted with clean water to adjust viscosity.

NOTE 1: Light is a key element to obtain the product performance. Tunnel lighting should be adapted to the Photocatalytic function. Light should be calculated based on pollution, traffic, and Tunnel conditions.

NOTE 2: In a rainless tunnel interior, the inorganic residues (calcium nitrate, chalk) produced as a residue of the photocatalytic reaction, should be removed periodically from the surfaces by a light pressure rinsing.



Via Porpora Tunnel (Milán)
Difference in wall cleanliness, after 1 MONTH

- TECHNICAL DATA

Photocatalytic Waterborne White Coating for Tunnels.

- Density: 1.57 Kg./lt
- No flammable. Waterborne
- High permeability to water vapour
- Based on Waterborne inorganic resins
- Touch dry 25°C: between 30 and 40 min
- Time between coats depending on tunnel ambiental conditions
- Yield : 5- 6 m2/lt. in two coats
- White colour
- Application temperature range between 5°C and 35°C
- Store in dry and warm areas

Waterborne photocatalytic coating specially designed for tunnel interior coating, based on resin dispersion having Acrylic components, and with high UVA-Visible light boosted photocatalysts content, based on EPS Technology

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.
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 TDS is valid until next edition is issued