

Updated 04/2015

Photo-Silicate *activa*

Photocatalytic Waterborne Silicate Coating for indoor and outdoor uses

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

- ELIMINATES AIR POLLUTION
- MAINTAINS COLOR ON THE SURFACE
- ELIMINATES POLLUTED AIR AGRESSIONS.
- REDUCES MAINTENANCE COSTS.
- CONTRIBUTE TO THE HEALTH OF PEOPLE
- ELIMINATES ODOURS
- INHIBITES GROWTH OF BACTERIA AND FUNGHI

PHOTOSILICATE is used on all kind of mineral surfaces, cement, concrete, lime, and for the restoration of old and weak traditional mineral surfaces, either indoor or outdoor. It can be delivered in a wide number of colours, creating elegant and healthy environments. **PHOTOSILICATE** does not create a superficial film and is highly breathable to water vapour. It has a very long durability. **PHOTOSILICATE** is used in areas with high air pollution, and in buildings where people's health is important.

- Restoration of Monuments and historical surfaces
- Façades and inner walls in historical buildings
- Modern Homes
- Buildings in urban centres
- Concrete structures
- Tunnels and viaducts
- All kind of mineral surfaces requiring high breathability

- 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.

Photocatalytic activity is initiated by light, progressively, during the days following the application, and is maintained during years.

-RESULTS

Tests carried on our coatings in



show a **91 % average capacity of elimination of pollutants**, when measured in a city having a pollution above legal limits.

Healthy air cleaner surfaces

-APPLICATION

PHOTO-SILICATE must be applied on mineral substrate, on lime or on old silicate coatings. Surfaces must be on clean, dry and sound, and also free from efflorescences. **PHOTO-SILICATE** is applied by brush or roller on a surface previously primed with **PHOTO-SILICATE PRIMER**.

Do not use water to thin **PHOTO-SILICATE**. In case a dilution is needed for the first layer, add a maximum of 15 % of **PHOTO-SILICATE PRIMER** ready to use (RTU means a mix 1: 1 **PHOTO-SILICATE PRIMER** and water). See **PHOTO-SILICATE PRIMER** TDS

NOTE: Do not apply **PHOTO-SILICATE** in extreme weather conditions, where it will dry too fast, in windy conditions, under strong sun conditions nor at temperatures above 35°C., as it can modify the curing process and modify the final result. In case of rain before its curing process is ended, the surface colour may be altered, and it must be corrected by cleaning and further re-coating.

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- TECHNICAL DATA

Photocatalytic Waterborne Coating based on Potassium Silicate binder

- Density: 1.6 Kg./l
- No flammable. Waterborne
- High permeability to water vapour
- Based on Waterborne inorganic resins
- Touch dry 25°C: between 30 and 40 min
- Yield: aprox. 6 m²/lt. in two coats
- Colour: on demand. It accepts pigmentation only based on Inorganic (Oxide) Pigments
- Application temperature range between 5°C and 35°C
- Store in dry and warm areas

Photo-Silicate. High Performance Photocatalytic Coating for mineral surfaces. It contains light boosters in the UVA-visible rang, based on the EPS Technology, to improve artificial light performance

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