

# Photo Silicate

Photocatalytic covering for outdoor and indoor potassium silicate base



## Product

- The activated walls with **Photo-Silicate** use light energy to destroy the air pollutants. Thus:
- Eliminates pollution in and around facades.
- Prevents walls and walls from becoming dirty.
- Prevents the growth of fungi and bacteria.
- Eliminates odors in the air.
- Enable to create

## 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 saves costs since the walls remain clean for many years.
- It destroys dirt and prevents the growth of microorganisms.

## Technical characteristics

- Density: 1.43 Kg/l
- Non inflammable
- Water steam permeable
- Dry touch 25°C: from 30 to 40 min
- Yield: approx. 6 m<sup>2</sup>/l in two coats depending on the substrate
- Colors. see colors chart
- Application temperatures between 5°C and 35°C
- Store it in protected from frost places

**\* Photo-Silicate: Photocatalytic covering with high performance in potassium silicate base for façades and building interiors. It contains light boosters in the UVA-visible range, based on the EPS Technology**

## Results

- **Essays over our painting at shows a 91% average elimination ability of the pollutants measured, in reference to the contaminated air in a city exceeding the pollution legal limits**



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## Applications

- **Photo-Silicate** can be used on any mineral, cement, concrete or plaster surface, as well as for the restoration of surfaces in poor condition. A wide range of colors is available to create clean, modern and elegant environments. It does not create a film, so it is completely breathable, and avoids peeling or flaking, ensuring a long life. It is used in areas where the air is polluted and in buildings sensitive to human health: facades and walls of historical buildings.
- It is used in areas where the air is polluted and in buildings sensitive to human health: facades and walls of historical buildings, modern housing, buildings in urban centers with high pollution, concrete structures, tunnels and galleries, mineral surfaces requiring high breathability.

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## Application way

**Photo-Silicate** is presented ready for its application. It is recommended to homogenize before its application.

Do not dilute with water. In case of desiring the first coat of **Photo-Silicate**, you can add until a 15 % of **Photo-Silicate Primer**, (ready to use, that means, once diluted **Photo-Silicate Primer** with water 1:1)

**Photo-Silicate** should be applied over substrate of mineral kind or over lime or old silicate painting that has to be firm and clean and absorbent and free from efflorescence. **Photo-Silicate** is applied with brush or roller **Photo-Silicate Primer**.

*NOTE: Do not apply **Photo-Silicate** in quick dryness conditions or in windy or strong insolation conditions. Do not apply also with temperatures exceeding 35°C, that can stop its correct cured and alter its appearance. In case of rain before its cure, stains can appear that can only be eliminated by neutralization and next repainting.*



## Color

Color chart

## Consumption

Approx. 6 m<sup>2</sup>/l in two coats depending on the substrate

## Conservation

In original closed container in a place protected from frost.

## ⚠ IMPORTANT

All the information provided in our technical information is based on our experience, technical knowledge and practice in certain working and testing conditions. The customer must check consumptions and the adaptation of the products under his particular working conditions, performing his own tests. Active Walls can provide technical advice if required. We guarantee the quality of the products in case of manufacturing defects, excluding subsequent claims. Our warranty is limited to the value of the products purchased. This data sheet is valid until a new version is issued.