

# TITANIUM® LX

## Photocatalytic Latex Paint



### Intended use:

Water - based latex paint designed for painting walls and ceilings in rooms particularly exposed to dirt and in a frequent need for being washed, for example: public utility buildings, health service buildings, gastronomy objects; hotel halls, offices, libraries, schools, corridors and stairways, surfaces exposed to frequent contact with moisture: bathrooms, walls around swimming pools, kitchens.

On a variety of different building materials like: plaster, concrete, bricks, gypsum, wood and wood-grained, plasterboards, paper and glass fibre wallpapers it gives water -resistant, flexible, smooth, snow- white high durability coat. It renders an aesthetic appearance, durability, and cleanness. The stained surface can be washed with a slightly moist cloth or sponge. The paint is based upon acrylic water dispersion with addition of pigments, mineral fillers and purifying agents, and contains silver particles and a catalyst obtained by the use of nanotechnology.

It is produced in a basic white colour, but it can be dyed on demand with high quality pigments in a number of pastel colours.

### Photocatalytic properties:

The product is efficient in removing such urban and industrial gas pollutions as: tobacco smoke, sulphur dioxide, carbon monoxide, nitrogen oxides, aldehyde vapours, alcohol vapours (methanol, ethanol, and iso-propanol), aromatic and aliphatic hydrocarbons (benzene, toluene, ethyl benzene, xylene, kerosene, petrol). The bigger surface is coated with photocatalytic material the faster elimination of pollutants from the surrounding area.

As a result of photocatalytic processes occurring in the presence of light and oxygen (included in the air), airborne pollution particles while coming into contact with the surface painted with the photocatalytic products, oxidize and change into harmless to health and to the natural environment compounds (mainly carbon dioxide and water). In the presence of the nanocatalyst (contained in the paint), stains, for example nicotine stains, are removed from stained walls. This happens due to the influence of direct, reflected, or scattered sun light, as well as artificial light.

In case of insufficient natural light, in order to maximally utilise the paint's properties it is advised to install additional lighting. Precipitation positively affects self-cleaning effect, and even moisture contained in the air (for example - in rooms - in case of indoor paints) is sufficient for the process to progress.

### Preparation of the surface and application of the product:

Before being painted, the surface has to be carefully cleaned; loose flakes of the old paint should be removed and the surface is to be degreased. Old layers of glue and lime-wash colours must be thoroughly removed. The fresh cement - lime plaster can be painted no sooner than 4 weeks after plastering. Smooth surfaces should be matted with abrasive paper. Cracks and other defects should be refilled with acrylic filler or gypsum. In case of a fresh plaster, incoherent or absorptive base the surface must be grounded with acrylic preparation SIL-GRUNT; it will significantly increase the durability of the coating.

The paint is ready to use and only in case when it has become dense it can be added up to 5% of running water. Whiting, lime and dry glue colour must not be added.

Before painting, the paint must be mixed very carefully. Tools and paint splashes should be washed with running water before the paint is dry.

- Available colours: white, others on demand, according to NCS or RAL cards,
- Paint with roller, brush or after proper dilution with spraying.
- Temperature of use and storage: +5÷35°C,
- Drying time: about 2 hours,
- Recommended quantity of layers: 1-2, in case of colour: 2-3
- Output: 10-12 m<sup>2</sup>/l,
- Density according to PN-82/C-81551: 1.54 ÷ 1.58 g / cm<sup>3</sup>,
- pH value: 8÷9
- Washing of equipment and dilution - running water,
- Hygienic certificate of PZH,
- Guarantee: 12 months from the date of production

Packaging: 5 litres, 10 litres