



TITANIUM IN

INTERIOR PAINT/PHOTOCATALYTIC/ THERMOREFLECTIVE/ VIRUCIDAL

PURPOSE: Water-soluble

paint intended for painting interior wall and ceiling surfaces.

It creates a wash-resistant, well-covering, deeply matt coating that is permeable to vapors and gases (diffusion, "breathing" walls). TITANIUM IN is a technologically advanced paint with photocatalytic, thermal insulation and thermoreflective properties. Thanks to the use of a composite of microspheres, the paint has a very high ability to reflect thermal radiation - it retains heat in winter and limits heating of rooms in summer. Two functions have been combined in one paint, photocatalytic and thermoreflective (thermal insulation).

It can be used on various building materials, such as: mineral and polymer plasters (e.g. acrylic), concrete, bricks, gypsum, paper wallpapers. It gives interior surfaces an aesthetic and durable appearance. A slightly dirty paint surface can be washed with a slightly damp cloth or sponge.

It is based on an aqueous polymer dispersion with the addition of pigments, mineral and synthetic fillers and refining agents. It contains a photoactive catalyst. It is produced in a basic white color, but on request it can be colored with high-quality pigments in a range of pastel colors.

PHOTOCATALYTIC AND THERMOREFLECTIVE PROPERTIES: The

paint contains a composite with photocatalytic and thermoreflective (thermal insulation) properties, which is a combination of relatively large silicate microspheres with a photoactive catalyst.

The product is effective in removing urban and industrial gaseous pollutants such as: tobacco smoke, sulfur dioxide, carbon monoxide (CO), nitrogen oxides, aldehyde vapors, alcohol vapors (methanol, ethanol, isopropanol), aromatic and aliphatic hydrocarbons (benzene, toluene, ethylbenzene, xylene, naphtha, gasoline).

As a result of the photocatalytic process, which occurs in the presence of light and oxygen (contained in the air), atmospheric pollutants, coming into contact with painted surfaces, are oxidized, transforming into substances that are harmless to health and the natural environment. The larger the surface covered with photocatalytic paint, the faster their removal from the environment occurs.

In the presence of the catalyst (contained in the paint), discolourations on the surfaces of the walls, e.g. nicotine stains, are also cleaned. The phenomenon occurs using direct, reflected, diffused light, both sunlight and artificial. In the case of insufficient natural light, in order to use the paint effect to the maximum, it is advisable to install additional lighting. The moisture contained in the air (e.g. in the rooms) is sufficient for the process to proceed.

The composite present in the paint gives the paint the ability to block over 90% of thermal energy from infrared (thermal, IR) radiation falling on its surface, reducing the heat transfer coefficient and helping to save heat in the winter. Studies have confirmed that the paint effectively insulates building walls that, covered with it, reflect thermal radiation. It owes this extraordinary property to microspheres, thanks to which the paint intelligently responds to changing temperatures inside and outside the room. Microspheres are small spherical particles with an inert gas inside. This ensures excellent radiation reflection. Thanks to this, the room maintains heat on cold days and does not heat up on hot days.

SURFACE PREPARATION AND APPLICATION: The paint is ready for use

after mixing, only in case of thickening up to 5% of water can be added.

The surface to be painted should be thoroughly cleaned, loose paint flakes removed, and degreased. Old layers of adhesive and lime paints must be removed without fail.



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Fresh cement-lime plaster can be painted no earlier than 4 weeks after application. Surfaces smooth, matt with sandpaper. Fill gaps and cracks with FILLER PC 01 or BIEL-PUTZ putty, larger - with plaster. The substrate should be primed with acrylic preparation BIEL-GRUNT, SIL-GRUNT or universal PRIMING PAINT.

SPRAY PAINTING:

DEVICE	PRESSURE, BAR	NOZZLE	FILTER, MESH	RECOMMENDED DILUTION
GRACO CLASSIC 390 PC	200-220	517	60	-

ADDITIONAL INFORMATION:

Individual batches of the product may differ slightly in shade after coloring. some of the colors available in the computer coloring system. In order to avoid noticeable differences, it is necessary to make a surface that constitutes a separate architectural whole in one cycle working, products from the same production batch. If it is necessary to use products from different production batches, it is recommended to mix them to even out the shade. Any corrections should be made using the “wet on wet” method.

COMMENTS:

Due to the variety of technologies and raw materials used in products by other manufacturers, the manufacturer is not responsible for the consequences of mixing its product with other products. In When tinting white paint with pigments from other manufacturers, always carry out a test on smaller quantity. The paint should be stored in its original and tightly closed packaging.



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available colors:	white, on request selected colours according to cards NCS or RAL
coating:	matte
scrub resistance class:	1 according to PN-EN 13300
paint:	with a roller, brush or after appropriate spray dilution
use and store at temperature:	5÷25°C
density according to PN-82/C-81551:	approx. 1.40 g/cm3
applying the next layer, 20°C, relative humidity air 50%:	after 4 hours
Brookfield viscosity 20±2°C, according to PN-ISO 2555:	12000÷16000 mPa·s
pH value according to PN-C-04963:	8,0-9,5
drying time at 23±2 °C, PN-C-81519:	2 hrs
recommended wet coating thickness PN-EN ISO 2808:	90-100 μm
largest grain size (granulation), PN-EN 13300:	fine up to 100 μm
water vapor transmission coefficient:	medium 15 < V < 150 g/(m2 24 h); 0.14 < sd < 1.4 m
recommended number of layers:	2, for some colors: 3
performance:	10-12 m2 /L
equipment cleaning and dilution:	water
Certificate:	Hygienic
Norma:	PN-EN 13300
warranty:	12 months from the production date shown on the cover (in original, undamaged packaging)
packaging:	5 L; 10 L

When a new version of the card appears, the previous card becomes invalid.
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