Latex paint «LOTOS»



Specification

The paint is hypoallergic, so it doesn't affect irritating, skin-resorbing and sensitizing (allergic) reactions. It is remarkable for its coverage rate, high resistance level to repeated washing (1 class acc. to DSTU EN 13300) and vapor permeability. It creates the coating with silky-matt gloss. It contains wax, which provides a "lotus effect" as the coating achieves water repellent features and is easy to clean from contaminations from the surface. It is easy to apply, doesn't run and spray during application.

Sphere of application

This latex paint is recommended for initial and renovating coating of walls and ceilings in dry and wet premises with high exploitation loading: children's rooms, kindergartens, medical and educational establishments, living and administrative premises, trade and recreation establishments and industrial premises. It is not intended for coating floors, doors and furniture! For interior works.

SURFACES: Mineral (plasters, stuccos, bricks, concrete), gypsum, wooden surfaces, wallpaper and fiberglass and the surfaces, which were previously coated with oil enamels.

Technical data

Consumption standard of 1 layer	100-150 g/m2 It depends on the way of application
Thinner	Water. It is allowed to delute the product up to 10% of the total mass of the product
Application	Apply with a roller, a brush or a spraying gun
Drying period (23 °C, 50% RH)	1 hour. Drying period increases if the temperature is going down and relative air humidity is getting high
Color base	It can be tinted according to the NCS color rate
Solids content (DSTU ISO 3251)	57±2 %
Density (DSTU ISO 2811-1)	≈ 1,34 g/cm^3
Gloss (DSTU ISO 2813)	max. 10 GU at 60°, mid sheen, DSTU EN 13300)
The degree of milling (SSU ISO 1524)	max. 20 micron, (fine-grained, DSTU EN 13300)
Contrast ratio of dry film (ISO 6504-3)	> 98 % - 2 class (cons. 9.1 m^2/l ≈ 150 g/m^2) > 99.5 % - 1 class (cons. 4.2 m^2/l ≈ 320 g/m^2) Class of hiding power (acc. to DSTU EN 13300)
Wet-scrub resistance, microns (DSTU ISO 11998)	max. 5 (after 200 cycles)
Wet-scrub resistance class (DSTU EN 13300)	1
Warranty period	36 months, (at the temperature from +5°C till +35 °C)
Packaging	1,2 kg, 3,5 kg, 6 kg, 12 kg
Color	white (base A).
Gloss	silky matt.

Composition

Acrylic latex, pigments, fillers, water, additives.

MC «POLYSAN» LTD
Ukraine, Sumy, I.Piddubnoho str. 25
tel./fax: +38 (0542) 650 621
www.farbex.ua

Tinting

It is intended for usage as an independent white coating for tinting in pastel, light colors, and colors of medium saturation.

It can be tinted manually or in a tinting machine according to the color rate NCS and others. When you tint the paint with alien materials, studios, or catalogs, it is necessary to make a test tinting and application. Pigment concentrates (colorants, etc.) can contain VOC, conservants, or other dangerous substances in their formulas. So, you can spoil the ecological advantage of Latex paint LOTOS by adding them. We recommend reading the corresponding TDS or MSDS for these products before choosing them or adding them to the paint.

We recommend using the product of the same batch (the paint and the colorant) for a finishing coating to avoid differences in colors. You should use the paint products of the same batch for the jointing surfaces, too. In case you use paint of different batches, mix them before use.

Make a test on a small area to check the correspondence of a chosen color.

We do not recommend diluting tinted paint for a finishing coating. After tinting, insignificant deviations from technical data for the product are allowed.

Hint: When you choose a color, take into account the lighting of the premises. Warm or cold lights give different colorperception of the same color.

Application instruction

The condition of obtaining a desired result of coating is following directions for the surface preparation and paint product application.

1 Surface preparation

The surface is prepared according to DSTU-N B A.3.1-23:2013 and DSTU-N B B.2.6-212:2016.
The surface must be dry – the humidity of the surface on all stages of preparation and paint works must be less than 5% for cement and cement-sand surfaces and less than 1% for gypsum ones. The surface must be clean from chalk and lime whitewashings, grease and oily stains, and other contaminations, efflorescence, dust (including abrasive dust after polishing plasters and stuccos), old paint products and wallpapers (which stick to the surface not secure), polymer adhesives, runs of construction mortars or composites. Mineral surfaces must be hard, without fragile parts or edges. The base materials like plaster, stucco, insulating, or adhesive elements must be completely dry and be ready for priming and coating with acrylic water-based products. Parts of the surface infected with mould or fungi must be removed: first mechanically and then treat the surface with antiseptic for mineral surfaces TM Farbex. Remove contaminations, infections, old coatings, or fragile parts with a wire brush, a spatula, a scratcher or with a polisher.
Correct appeared defects with Plater TM Farbex (depending on the defects character).
Existing metal elements in the base surface or those that will be used after painting must be made of galvanized or stainless steel. When you use iron elements, they must be initially protected against corrosion with special primers or other products.
Check the compatibility of the products on a small area following technical recommendations or specialists' consultation before you use other products (an adhesive, an antiseptic, a plaster, etc.). Follow the directions precisely (especially drying period and subsequent treatment) when further priming and painting construction mortars or products. For example, fresh cement plasters must not be treated for 28 days.

2 Priming

To provide maximum exploitation resistance and the best decorative effect, depending on its type, the surface must be primed:

Wooden porous surfaces with acrylic wood-protective primer TM Maxima. Attention! The primer pushes up the fibers of the timber, which is why you should first polish the surface and then apply the paint.

Mineral surfaces - primer-concentrate 1:10 Aqua Primer TM Maxima. Depending on the type of surface, dilute the primer according to the directions.

Dense types like OSB, woodchop boars, particle boards, wallpaper, and hard old paint coatings need no initial priming before painting. Follow all recommendations for priming of construction mortars or products. If necessary, consult with the specialists of POLYSAN.

3 Applying of finishing layer

Before applying the paint, make sure that the surface is dry enough after preparation.
Stir the paint carefully before use. If necessary, filter it and dilute with water. The abnormal dilution spoils the coating quality!
Apply the paint in 1 – 2 coats. A subsequent coat must be applied after 4 hours. Paint consumption and the quantity of coats can increase on highly contrasted, very porous, and rough surfaces. The precise consumption can be determined by a test application on a small area.
Apply the paint continuously in one direction with the same consumption of the paint. We recommend carrying out coating "from edge to edge" (from corner to corner) or within the measures of decorative elements without breaks. When you apply the paint on large areas and/or for a long period, we do not recommend keeping the container with the paint open.
Carry out painting at the temperature of the air and working surface from + 10 °C to + 35 °C and relative air humidity less than 80%. Provide appropriate ventilation during paint application and drying.
The coating achieves full hardness and the ability to resist mechanical loading in 28 days.
Latex paint LOTOS can be applied in the following ways:

The way of application	Quantity of diluent	Jet size	Pressure
Airless spraying	0 – 10 %	0.019" - 0.023"	15 - 18 MPa (≈ 150 - 180 bar)
Pneumatic spraying	0 – 10 %	2,0 – 2,5 мм	0,4 – 0,5 MPa (≈ 4-5 bar)
A brush / a roller	0 – 5 %	-	-

The tool must be recommended for water-based products.
When you use a roller, we recommend using a cuvette for homogeneous wetting it with the paint. Attention! For a smoother coating, we recommend using rollers with a shorter nap.
When you use sprayers, follow the instructions for them. The airless splaying is more preferable. The thing is that pneumatic spraying can

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demand the maximum recommended dilution, which can result in a lessening of the coating thickness or creating runs.
For a quality coating, you have to obtain painting skills, especially when you use professional instruments.
Compatibility with other coatings
Depending on the conditions for exploitation, the impregnate can be used with different finishing coatings. The examples of compatibility are mentioned below. Call the specialists of POLYSAN for more detailed recommendations.
A previous coating – acrylic water-based products.
A subsequent coating – the paint shows water-repellent properties, which is why further application of acrylic water-based products can be a problem. We recommend a slight abrasion of the surface if you want to apply other paint products. We also recommend a trial application to determine compatibility.
We recommend testing the compatibility of products on a small area of the surface.

4 Tool cleaning

Clean tools with water after application. Do not let them dry. Dry product shall be removed from the tools in mechanical way.

SAFETY

Do not mix with other products and (or) solvents! Store the products in tightly closed original containers at a temperature from + 5 °C to + 35 °C. Keep out of moisture, direct sunlight and frost in the places out of reach of children. Use individual safety gear (special clothes, rubber gloves, a respirator, goggles). When coating indoors, provide proper ventilation. If skin contact, clean it thoroughly with water and soap. If eye contact, rinse it with plenty of running water. If necessary contact the doctor. It contains VOC: cat. A/a (WB): < 30 g/l. Actual VOC content is ≈ 0 g/l. It doesn't contain lead and its compounds. You can find more detailed information in the MSDS. The product has a Conclusion of the state sanitary and epidemiological examination.

ENVIRONMENTAL PROTECTION

Do not empty into drains, ponds and in the soil! Liquid rests shall be delivered to the waste drop-off point. Rests of dry products and empty containers shall be recycled as common construction waste, in accordance with the Law.

The authenticity of this information is based on laboratory tests and practical knowledge. The quality of the product completely corresponds to the demands of TU U 24.6-32318370-020:2021. As a manufacturer, the company isn't responsible for the damage caused by application, which is not in accordance with the directions. The applicability of the product for specific purposes shall be defined entirely by the consumer. Current information loses validity with the issue of a new edition.

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