

Silicone Facade Paint

Specification

Matt. It has advanced resistance to weather effects (moisture, UV radiation). It has high vapor and low water permeability (acc. to DSTU EN 1062), and good adhesion.



Sphere of application

It is intended for coating of building facades made of different hard mineral (concrete, bricks, plaster, putty, gypsum base surface), mineralpolimeric (acrylic or silicone stuccos) and other surfaces (ply wood, MDF, wood chip board, OSB).

It is used for the initial application and renovation of facades of living, trade, industrial, storing and other buildings, reinforced concrete and cast-in-place concrete constructions and also facade insulation systems.

Technical data

Consumption standard of 1 layer	150-200 g/m ² , depending on the way of application and the type of the surface.
Thinner	Water . Dilution of maximal 10% of the total weight of the product is allowed.
Application	Apply with a roller, a brush or a spraying gun.
Drying period (23 °C, 50% RH)	2 hours . Drying period increases if the temperature is getting lower and the relative air humidity is getting higher.
Color base	A, B, TR. It is shaded according to NCS color range.
Solids content (DSTU ISO 3251)	55±2 % (base A, B, TR)
Density (DSTU ISO 2811-1)	≈ 1,45 g/sm ³ (base A), 1,36 – 1,37 g/sm ³ (base B, TR)
Gloss (DSTU ISO 2813)	< 5 GU (matt, max. 10 GU at 85°, G ₃ , DSTU EN 1062-1)
Dry film thickness	50-100 microns , for a single layer (E ₂ , DSTU EN 1062-1)
Particle size	max. 30 microns , (fine-grained, S ₁ ,DSTU EN 1062-1)
Vapor permeability (EN ISO 7783-2)	more than 150 g/(m ² *day) , (high, V ₁ , DSTU EN 1062-1)
Water permeability (DSTU EN 1062-3)	max. 0,1 kg/(m ² * h ^{0,5}) , (low, W ₃ , DSTU EN 1062-1)
Marking acc. to the DSTU EN 1062-1	G ₃ E ₂ S ₁ V ₁ W ₃ A ₀ C ₀
Warranty period	24 months from the manufacturing date (at the temperature from +5 °C till +35 °C)
Packaging	Base A - 1,4 kg, 4,2 kg, 7 kg, 14 kg Base B, TR - 1,2 kg, 3,6 kg, 6 kg, 12 kg, 18 kg
Color	base B, base TR, white (base A).
Gloss	matt.

Composition

Acrylic dispersion, silicone emulsion, pigments, extenders, additives.



Tinting

The product is manufactured in following bases:

Base A. It is intended for use as a white finishing coating or for tinting in pastel, light colors.

Base B. It is intended for tinting in colors of medium saturation.

Base TR. It is intended for tinting in saturated colors.

Base TR and B cannot be used without tinting.

It is tinted manually using pigment concentrate Farbex Color, other water-based tinting pastes, or with tinting machines according to the color catalog NCS and others. If you tint with other products, tinting machines, or catalogs, you must take into account their suitability for exterior works, silicone products, and carry out test tinting and application.

For saturated colors (yellow, black, pink, orange, green, or bright green), the base surface must be of one color. Otherwise, you might apply additional coats. To lessen the consumption of saturated color paint, the surface must be previously painted with base A (white or tinted in a similar pastel color paint).

We recommend using the product of the same batch (the paint and the colorant) for coating the surfaces to avoid differences in color shades. Use the product of the same batch for the surfaces that join each other. In case you use the product of different batches, it is necessary to mix them.

Carry out a test application on a small area to check that the color corresponds to the chosen one.

Insignificant deviations in technical data for this product are allowed after tinting.

A hint: When you choose a color, take into account the lighting and location of façade elements according to the sun and their texture. Elements in shadows, diagonal surfaces, elements with different roughness, daytime period will provide a different eye-perception of the same color.

Application instruction

The condition for receiving a desired result is following directions for using the paint product and preparing the surface.

1 Preliminary 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, and 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 treated 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 character of the defects).

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, fresh concrete - 3 months, the surfaces of insulating systems - 7 days.

2 Priming

To provide maximal exploitation resistance and better decorative effect, depending on the type of surface, it should be primed:

Wooden porous surfaces - with acrylic wood-protective primer TM Maxima. Attention! The primer raises the wood fibers, therefore you can coat the surface after polishing.

Mineral surfaces - deep-penetrating silicone primer TM Farbex.

Hard types of OSB, wood chip boards, fiberboards, and wallpapers. Old hard paint products demand no prior priming before coating.

Follow the recommendations for priming construction mortars and products. If necessary, call the specialists of POLYSAN.

3 Application

Before applying the paint, make sure that the surface is dry enough after preparation.

The paint is ready to use. Stir the paint thoroughly before use. Filter it and dilute with water if necessary. Abnormal dilution spoils the quality of the coating!

Apply the paint in 1-2 coats. Apply a subsequent coat when the previous one is fully dry, but not before 2 hours. Very porous, rough, or highly contrasted surfaces may increase the quantity of coats and consumption of the paint. Precise consumption can be determined by a



test application on a small area.

Remember! Mineral and wooden surfaces are porous materials, so the consumption and the quantity of coats can increase.

We recommend continuously applying in one direction with the same consumption. Carry out the application "from edge to edge (from corner to corner)" or within the limits of the decorative element without breaks. When you carry out an application on a large area and/or during a long period, we recommend stirring the paint from time to time. We do not recommend keeping the container with the paint open for a long period.

Carry out the application at the temperature of the air and the surface from + 5 °C until +35 °C and relative air humidity less than 80 % (the temperature of the surface must be 3 degrees above a dew point. Do not apply the paint under direct sunlight, strong wind, frost and precipitation. After application, the coating shall not be affected by precipitation or subzero temperature during 12 hours.

The coating achieves its full hardness and ability to resist mechanical loading after 28 days.

Façade silicone paint can be applied by following methods:

Method 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 mm	0,4 – 0,5 MPa (≈ 4-5 bar)
A brush / a roller	0 – 5 %	-	-

The tools must be recommended for water-based products.

When you apply with a roller, we recommend using a cuvette for homogeneous wetting the tool. Attention! For smoother coating we recommend using a roller with a short nap.

When you apply with by a spraying method, follow the instruction for exploitation. Airless spraying is more preferable. The reason is that when you use pneumatic spraying, you have to dilute the product and often diluting can be on the maximum recommended limit that can occur lessening thickness of the coating and creating of runs.

For a quality coating you must obtain painting skills, especially if use professional instrument.

Carrying out external (façade) works we recommend cover the façade with a special tent for facades and construction platforms.

Compatibility with other coatings

Depending on the exploitation conditions, it can be used with different primers and finishing coatings. The examples are stated further. Call the specialists of POLYSAN to receive more detailed recommendations.

Previous coating – acrylic or silicone water-based products.

Subsequent coating – silicone water-based products.

Compatibility of products is recommended for testing on a small area of the surface.

4

Tool cleaning

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



 **SAFETY**

Do not mix with other products and (or) organic solvents! Keep in tightly closed original containers at a temperature from +5 °C till +35 °C. Keep out of moisture, direct sunlight, frost, and out of reach of children. During application, use personal safety gear (work clothes, rubber gloves, a respirator, and safety glasses). If the application is indoors well-arranged ventilation shall be provided. If skin contact, wash thoroughly with water and soap. If eye contact, rinse with plenty of running water. Consult a doctor if necessary. VOC content: cat. A/c (WB): < 40 g/l. Actual VOC content ≤ 25 g/l. The paint doesn't contain lead and its compounds. For more detailed information, read a safety data sheet. The product has a sanitary-epidemiological conclusion of the state expertise.

 **ENVIRONMENTAL PROTECTION**

Do not empty into drains, ponds and in 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 20.3-32318370-017:2018. As a manufacturer, the company isn't responsible for the damage caused by application, which is not in accordance with the directions. 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.

