Deep penetration silicone primer "Urban Primer"



Specification

- it penetrates deeply and hardens the base surface
- it lessens water permeability of the base surface without significant effect to vapor permeability of a complex coating.

Sphere of application

It is intended for improving adhesion, hardening and leveling of absorption of different surfaces (bricks, concrete, slag block, concrete stuccos, chip wood boards, MDF, gypsum boards and other porous surfaces) before performing of any finishing works with a plaster or putty, coating with acrylic or silicon waterborne products inside and outside.

Technical data

Consumption standard of 1 layer	80-125 g/m^2, it depends on condition and structure of the surface.
Thinner	Water
Application	It is applied with a roller, a brush or a spraying gun.
Drying period (23 °C, 50% RH)	1 hour. Drying period increases if the temperature is getting down and relative air humidity is increasing.
Solids content (DSTU ISO 3251)	6±1 %
Density (DSTU ISO 2811-1)	≈ 1 g/cm^3
Warranty period	18 months from the date of manufacturing (at the temperature from +5 °C till +35 °C)
Packaging	2kg (≈ 2l), 10kg (≈ 10l)
Color	colorless.

Composition

Acrylic dispersion, silicone emulsion, water, additives.

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Application instruction

The guarantee of the desired result is following the directions for applying the paint product and preparing the surface.

1 Surface preparation

The preparation of the base surface is carried out according to DSTU-N B A.3.1-23:2013 and DSTU-N B V.2.6-212:2016.

The surface shall be dry - the humidity of the base surface shall be less than 5% before priming for cement and cement-sand base surfaces, and less than 1% for gypsum. Wet surfaces don't allow the primer to absorb, thereby reducing its hardening ability.

The surface must be clean from chalk and lime whitewashings, grease and oily stains, and other contaminations, efflorescences, dust (including abrasive dust after plaster polishing), old paint products, wallpapers, polymeric adhesives, composits and construction mortar runs.

Mineral-based surfaces shall be hard, without fragile parts or edges. The material of the surface and all plaster, stucco, insulating or adhesive elements shall be completely dry and be ready for priming.

Areas affected by mould or fungi must be removed: first, mechanically with special tools, and then treated with antiseptic for mineral surfaces TM Farbex.

Remove contaminations, infections, old coatings, or fragile parts with a wire brush, spatula, scratcher, or by machine.

Renovate uneven surfaces with plaster TM Farbex (depending on their nature).

Metal elements on the surface shall be made of galvanized or stainless steel. If you use iron elements, you must protect them against corrosion with special primers or other products.

Before using subordinate products (glue, antiseptic, stucco, etc.), we recommend checking compatibility on a small area of the surface, following technical directions or specialist advice.

Follow thoroughly technical recommendations (especially during drying period or subsequent treating) for further priming and decorating with constructive mortars or products. For example, cement plasters shall be treated not before 4 weeks after application, fresh concrete - 3 months, and the surface of the insulating system - 7 days.

2 Applying

Stir the primer thoroughly before use. The primer is ready to use and needs no dilution. Filter it if necessary.

Very absorbing surfaces must be treated in 2 coats with an intermediate drying period of 2 hours (drying period between priming coats increases if the temperature falls, and relative air humidity rises. The consumption of the primer also matters.) Check the condition of the surface after every primer application to make sure if the next coat is necessary.

Carry out works at the temperature of the air and the surface from +10 °C to +30 °C and relative air humidity less than 80% (the temperature of the surface shall be 3 degrees higher dew point).

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

Do not prime under direct sunlight, strong wind, frost and precipitation. A primed surface shall not be affected by precipitation or subsero temperatures until finishing coating is not applied.

Subsequent works shall be carried out after 5 hours from the last applied primer coating.

Deep-penetrating silicone primer can be applied as follows:

Application method	Quantity of thinner	Jet size	Pressure
Airless spraying	It needs no diluting!	"0,007 - 0,011"	15 МПа (≈ 150 bar)
Pneumatic spraying		1,2 – 1,4 mm	0,3 – 0,5 mPa (≈ 3-5 bar)
A brush / a roller		-	-

The tool shall be recommended for WB products.

We recommend using a cuvette when working with a roller for homogeneous wetting of the tool.

When you use a spraying gun for application, follow the directions for exploitation.

For a quality coating, you shall obtain painting skills, especially when you use professional tools.

We do not recommend overpriming the base surface. To avoid these effects, we recommend test application of all materials on a small area of the surface or "testing stand".

Attention! A primer provides no hydroisolating and antiseptic properties and doesn't protect against biocorrosion. Do not use for priming metal and wooden surfaces!

The primer is not a finishing product; it must be protected with finishing products. The primer cannot be used as a tinting base.

When applying outdoors (facade works), we recommend carrying out work using a tent for "coverage of facades and building constructions".

Compatibility with other coatings

Depending on the conditions of exploitation, the primer can be used together with various finishing coatings. The examples of compatibility are mentioned below. If you need more precise information, call the specialists of POLYSAN.

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Previous coat - we recommend applying it on a clean surface. Subsequent coat - acrylic and silicone water-based products.

We recommend testing compatibility on a small area of the surface.

3 Tool cleaning

Rinse tools with running water after you finish the work. Do not let them get dry.

SAFETY

Do not mix with other products and (or) organic solvents! Keep in the places out of reach of children in tightly closed original containers at the temperature from +5 °C till +35 °C. Keep out of moisture, direct sunlight and frost. During application use personal safety gear (work clothes, rubber gloves, a respirator and safety glasses). If 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/h (WB): < 30 g/l. Actual VOC content ≤ 15 g/l. More detailed information you can read in the safety data sheet. The product has a sanitary-epidemical 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.

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