Anticorrosion primer GF-021

Specification

- It allows achieving high-quality adhesion to the undercoated surface and to layers applied over the primer.
- It protects from corrosion
- It reduces enamel consumption

Sphere of application

It is intended for protective coating metal and wooden surfaces before the application of alkyd enamels. Also, it significantly reduces the enamel consumption. It allows using the primer as a single coat for temporary protection against corrosion during an interoperative storage period.

Technical data

Consumption standard of 1 layer	60-100 g/m^2, it depends on the type of the surface and way of application.
Solvent	solvent TM DekART or oderless solvent TM Maxima, maximum of 10% from the primer weight.
Application	Apply with a short-haired roller, a brush, a spraying gun or dipping method.
Drying period (23 °C, 50% RH)	max. 12 hours. Drying period increases if the temperature is getting down and relative air humidity is getting higher.
Solids content (DSTU ISO 3251)	> 60 %
Density (DSTU ISO 2811-1)	1,42±0,05 g/cm^3
Hardness (DSTU ISO 1522)	> 35 sec., Konig pendulum.
Non-volatile matter by volume (DSTU ISO 3233)	> 50 %
Warranty period	18 months from the date of manufacturing.
Packaging	0,3 kg, 0,9 kg, 2,8 kg
Color	white, red brown, grey, black.
Gloss	matt.

Composition

Glyphtal resin, pigments, extenders, solvent, additives.

Application instruction

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

1 Surface preparation

The surface must be dry, thoroughly cleaned until hard base surface from dust, dirt, mould, corrosion, scale, oily, grease and other contaminations and pealed paint coatings. Use these methods of cleaning: mechanical (a scratcher or wire brush), thermal (a heat gun or infrared radiation), and chemical (paint-removal solutions). Avoid using a cleaning option that can damage the base surface.

Metal surfaces shall be treated manually with mechanical instruments (min stage St2) or abrasive jet sander (min stage Sa2½) according to DSTU ISO 8501-1. Degrease it with Odorless thinner TM Maxima.

Wooden surfaces must be polished manually or with a polisher. Remove abrasive dust from the surface. Remove resin deposits from the surface of the wood mechanically (with a spatula or a scratcher). If wood is infected by blue stain, mould, or fungi, remove infected areas: first mechanically, then treat the wood with antiseptic for wooden surfaces TM Farbex. Correct created uneven areas with Putty TM Farbex. Polish the corrected surface and dust it off. The humidity of the wood must be less than 20%.

2 Applying

Stir the primer thoroughly until homogeneous condition. If necessary, filter the primer, dilute it with solvent TM DekART or odorless

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thinner TM Maxima till workable viscosity (extra dilution causes a reduction or material resistance to runs and hardening).

Apply 2 coats of the primer to get optimal properties of the surface. A subsequent coat must be applied after 24 hours only.

Carry out works at the temperature of the air and the surface from +5 °C to +35 °C and relative air humidity under 80% (the temperature of the surface must be 3 degrees above the dew point). Do not apply the product under direct sunlight, strong wind, and precipitations. Remember! Mineral and wooden surfaces are porous materials, and the consumption of the product can be increased.

When you work on large areas and/or for long periods, stir the primer from time to time. We do not recommend keeping the container with the product open for a long time. Do not apply the product under direct sunlight, strong wind, and precipitations. After application, the surface shall not be affected by precipitation for 24 hours or until the finishing coat is applied.

Drying period

Temperature	10 °C	23 °C	35 °C
Dry to touch, hours	< 16	< 12	< 8
Dry for applying the next coat, min, hours.	24	24	24
Dry for exploitation, days	10	7	5
Complete hardening (polymerization), days	14	10	7

Drying period and polymerization are determined at the given temperature and relative air humidity less than 50±5 %. The thickness of the dry film of the coating is 40 microns.

Dry to the touch is the film condition, when the gentle touch and press of a finger doesn't leave any mark, and the surface and the coating are not sticky.

Drying for application of the next coat, min is the minimum recommended period, after which you can apply a subsequent coat.

Drying, which is enough for the coating exploitation, is a minimal period, after which the coating can be affected by external factors (shipping, exploitation, etc)

Complete hardening (polymerization) is a period, after which the coating achieves all the complex physical and chemical features.

Primer GF-021 can be applied with the following methods:

Method of applicatin	Quantity of diluent	Jet size	Pressure
Airless spraying	0 – 10 %	0.015" - 0.017"	15 MPa (≈ 150 bar)
Pneumatic spraying	0 – 10 %	1,7 – 1,8 mm	0,3 – 0,5 MPa (≈ 3-5 bar)
A brush / a roller	0 – 5 %	-	-

The tools must be recommended for solvent-based products.

Working with a roller, we recommend using a cuvette for homogeneous wetting of the tool. We do not recommend using foam rubber rollers.

Using spraying instruments, follow the instructions for exploitation.

You should obtain painting skills to get a quality coating, especially if using a professional instrument.

Thickness of one-layer coating if the consumption is different

Consumption	60 g/m^2	80 g/m^2	100 g/m^2
The thickness of dry film	25±2 µm	33±2 µm	40±2 µm
The thickness of wet film	40 µm	55 µm	65-70 µm
Standard consumption (acc. to mass and volume)	24 m^2/l	18,2 m^2/l	14,5 m^2/l
	16,7 m^2/kg	12,5 m^2/kg	10 m^2/kg

Compatibility with other coatings

Depending on the conditions for exploitation, the primer can be used with different primers and finish coatings. The examples of compatibility are given below. For more detailed recommendations, call the specialists of POLYSAN.

The previous coat is recommended to be applied on a clean surface.

Subsequent coats must be alkyd solvent-based or water-based products.

The compatibility of the products must be tested on a small area of the surface.

3 Tool cleaning

Clean tools with a solvent and then with warm water with detergents if necessary.

SAFETY

Keep away from fire! Keep in tightly closed original containers at the temperature from -20 °C till + 40 °C. Keep out of moisture, direct sunlight and food. Keep in the places out of reach of children. During application use personal safety gear (work clothes, rubber gloves, a respirator and safety glasses). Provide well-arranged ventilation of the space if the application is indoors and 48 hours after coating. If skin

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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/i (SB): < 500 g/l. Actual VOC content ≤ 400 g/l. It doesn't contain lead and lead compounds. 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 testing and practical experience. Quality of materials completely meets the demands of TS U 24.3-14005076-069:2006. As a manufacturer, the company isn't responsible for the damage caused by the wrong application of the product. Applicability of the product for specific purposes shall be defined entirely by a consumer. Current information loses validity with the issuing of a new edition.

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