

## Description

Single-component primer-enamel based on polyacrylic resins, contains anti-corrosive pigments.  
Can be applied directly to the metal without pre-coating ("direct-to-metal" – DTM coating type).  
It combines protective characteristics of primer and high-decorative qualities of enamel, resists to UV-radiation.

## Recommended use

Anticorrosive protection of new and repairable carbon steel structures, used in the atmospheric conditions off all macroclimate areas, types of atmosphere and placement categories according to GOST 15150.

It is used as:

- independent coating;
- finishing coat in complex coating systems with VINICOR-ecoprime (TU 2312-002-67503963-2011), ISOLEP-primer (TU 2312-067-12288779-2008), ISOLEP-mastic (TU 20.30.12-065-12288779-2017) primers, as well as with other epoxy-based primers.

## Certificates, Approvals

State registration certificate No. RU.77.01.34.015.E.002210.10.15 dated 09.10.2015

## Technical data

Color of coating	According to RAL
Appearance of coatings	Semigloss, homogenous
Density of primer-enamel, g/cm <sup>3</sup>	1.1±0.1
Viscosity according to viscometer with nozzle diameter 4 mm at temperature (20.0±0.5) °C, s not less than	50
Non-volatile matters	
by volume, % (volume)	37±2
by mass, % (mass)	51±4
Drying time to 3 degree (GOST 19007), at temperature (20±2)°C, h, not more than	1
Dry film thickness, µm	50-70
Wet film thickness, µm	140-190
Theoretical spreading rate of one-layer coating, g/m <sup>2</sup>	145-205

## Surface preparation

When used as an independent coating:

- to degrease metal surface to grade not less than 1 according to GOST 9.402;
- to remove scale, corrosion and old paint by abrasive blast cleaning to grade not less than 2 according to GOST 9.402 (Sa 2<sup>1/2</sup> according to ISO 8501-1). Preparing to Sa 2 grade is acceptable depending on further operating conditions. Surface roughness 20-40 µm (ISO 8503-2 segment from 1 to 2 excluding 2). It is allowed a hand tool cleaning up to not less than 2 grade according to GOST 9.402 (St 2 according to ISO 8501-1).
- to remove dust.

The coating must be dry, clean, oil and dust shall be removed before application the second layer or in cases when the primer-enamel VINICOR-acryl used as a finishing layer in complex coating.

## Application

- mix the primer-enamel thoroughly to homogenous condition before application;
- if necessary, the composition should be diluted to the working viscosity.

The material is recommended to be applied in the plant and field conditions at temperature from minus 5 to plus 35 °C and relative air humidity not more than 85 %. The temperature of the painted surface must be above the dew point by at least 3 °C. Prepared primer-enamel shall be of temperature at least 15 °C.

The primer-enamel is recommended to be applied in 1-2 layers using airless, conventional (air) spray or by brush/roller.

#### Recommended application methods

##### **Airless spray**

Recommended thinner	SOLVIN-15 (TU 20.30.22-014-67503963-2018) or xylene
Quantity	up to 5 % by mass
Pressure	15-22 MPa (150-220 bar)
Nozzle diameter	0.015"- 0.021" (0.38 – 0.53 mm)

##### **Conventional (air) spray**

Recommended thinner	SOLVIN-15 or xylene
Quantity	up to 5% by mass
Pressure	0.2-0.4 MPa (2-4 bar)
Nozzle diameter	1.8-2.2 mm

##### **Brush/roller**

Recommended thinner	SOLVIN-15 or xylene
Quantity	up to 5% by mass

##### **Equipment cleaning**

SOLVIN-15  
thinners P-4, toluene, xylene

Overlapping interval between the layers of primer-enamel at temperature of plus 20 °C – not less than 1 hour. Drying time depends on the temperature of surface and ambient air, degree of dilution of the material, thickness of coating, efficiency of ventilation and relative air humidity.

## **Storage and handling**

The material is packed in metal buckets.

Storage conditions – in accordance with GOST 9980.5 (at air temperature from minus 40 to plus 40 °C). The material components shall be stored away from heat sources, the container shall be protected from direct sunlight and atmospheric condensation.

The shelf life of the primer-enamel is 12 months starting with the manufacture date.

## **Precautions**

When working with the primer-enamel, one shall observe the existing sectoral standard norms and requirements and safety measures as specified on the package label.

One shall use personal protective equipment (goggles, face masks and respirators) and avoid inhalation of thinners and contact of the composition or its components with skin, eye mucosa, respiratory channels; use inside the premises is allowed only in case sufficient ventilation is provided.

The material and its components (base and hardener) are fire-hazardous!

*The information is of general character, without consideration to the object specific nature. Use of materials for other purposes not specified here or in case other influencing factors are present shall be approved by the VMP Holding CJSC in writing. In case of absence of such approval the manufacturer is not held liable for the improper use of the material and the buyer falls from the right to present claims connected with the coating quality.*



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