

Description

Double-packed epoxy primer, thixotropic, tolerant to surface preparation, allows to apply thick coating; low content of organic solvents. VINICOR-marine coating is resistant to sea and fresh water, crude oil, oil products, and other environments, sudden temperature changes from minus 50 to plus 60 °C.

Recommended use

Is applied as a primed coating in complex corrosion protection systems of underwater hull and freeboard, variable waterline area, superstructures of unrestricted navigation ships, and metal structures used in sea, fresh water and atmospheric conditions. Brown- and grey-colored primer can be applied for surfaces with consolidated residual rust layer and/or old coating.

Certificates, Approvals

State registration certificate No. RU.77.01.34.008.E.003540.12.18 dated 20.12.2018.

VINICOR-marine coating system is approved by FSUE "Prometey" and has decision of MVK for use of materials in ship construction.

It has a certificate of Russian River Register voluntary certification system No. POCC RU.PO00.H00269.

Technical data

Color of coating	Gray, red-brown, orange	
Gloss of coating	matt	
Density of the primer, g/cm ³	1.4±0.1	
Viscosity of the primer	Thixotropic	
Pot life at temperature (20±2)°C, h, not less than	8	
Non-volatile matter content	gray, red-brown	orange
– by volume, % (volume)	62±2	71±2
– by mass, % (mass)	75±3	82.5±2.5
Drying time to 3 degree (GOST 19007), at temperature (20.0±2)°C, h, not more than	24	
Dry film thickness, µm	100-150	
Wet film thickness, µm	160-240	140-210
Theoretical spreading rate of one-layer coating, g/m ²	220-330	190-285

Surface preparation

- to degrease the metal surface to 1 grade according to GOST 9.402;
- to do abrasive-blast cleaning from scale, corrosion products and old coatings to 2 grade according to GOST 9.402 (Sa 2 ½ or Sa 2 grade according to ISO 8501-1); at repair painting (for gray- and red-brown-colored primers), mechanical and manual cleaning from corrosion up to 3 or 4 grade according to GOST 9.402 (not less than St 2 according to ISO 8501-1) is allowed;
- to remove dust.

Before applying the second layer and finishing enamels, the coating shall be dry, clean, oil and dust shall be removed.

Application

- mix the base thoroughly to homogenous condition before application;
- with constant stirring, add the hardener to the base and mix thoroughly (the ratio of the base and hardener stated on the label of the package and in the material quality certificate);
- dilute to working viscosity, if required;
- before application, the prepared material shall be held for 15-20 minutes covered.

When working, one shall consider decrease in pot life of the composition (after mixing the components) at air temperature increase.

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

Prepared primer shall be of temperature at least 15 °C.

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

Recommended application methods:

Airless spray

Recommended thinners	SOLVIN-12 (TU 20.30.22-014-67503963-2018)
Quantity of thinner	up to 7 % by mass
Pressure	15-21 MPa (150-210 bar)
Nozzle diameter	0.015"-0.021" (0.38-0.53 mm)

Conventional (air) spray

Recommended thinners	SOLVIN-12
Quantity of thinner	up to 7 % by mass
Pressure	0.2-0.4 MPa (2-4 bar)
Nozzle diameter	1.8-2.2 mm

Brush/roller

Recommended thinners	SOLVIN-12
Quantity of thinner	up to 7% by mass

Equipment cleaning

SOLVIN-12,
646, P-4 thinners

Intermediate drying between the layers of primer and finishing enamels is not less than 5 hours, at temperature of plus 20 °C. Hardening time depends on the air and surface temperature, material dilution degree, coating thickness, ventilation efficiency, and relative air humidity.

Holding time of the coating before operating in aggressive environments is not less than 7 days at temperature of (20±2)°C.

Storage and handling

The material is delivered in packages: the base and hardener packed in metal buckets and metal cans respectively depending on the package weight.

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

The warranty storage period is determined by the storage period of the base (24 months) and the hardener (12 months) starting with the manufacture date.

Precautions

When working, 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), avoid inhalation of thinners and contact of the material 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 (the base and hardener) are fire-hazardous!
Hardened coating is not harmful.

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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