

VINICOR[®]-term

heat-resistant coating

(TU 20.30.12-016-67503963-2018)



Quality management system is
certified in accordance with ISO
9001

Description

One-pack heat-resistant anticorrosive coating based on modified organosiloxane resin.

Purpose and area of application

Used for protective-decorative painting of metal surfaces operating at temperatures from minus 60 to plus 600 °C in atmospheric conditions of different climatic regions, in the industrial atmosphere, and for decorative painting of mineral surfaces (concrete, reinforced concrete, brick and asbestos) inside buildings.

Used as an independent coating.

Heat resistance and anti-corrosion protection of the primer enamel coating depends on the material color and coating thickness:

Color	Operating temperature of the coating, °C	Recommended coating thickness, µm
red-brown, black, silver	up to 600	35-55
white, gray	up to 400	55-80
red	up to 250	80-120
all colors	up to 100	100-150

Certification, tests

State registration certificate No. RU.77.01.34.008.E.001522.06.20 dated June 25th, 2020

Specifications

Coating color	white, gray, red-brown, black, silver, red
Coating appearance	Matte, homogeneous
Relative viscosity at a temperature of (20.0±0.5) °C, according to the VZ-246 viscometer with a nozzle diameter of 4 mm	at least 25
Non-volatile matter content	
– by volume, % (volume)	40±2
– by mass, % (mass)	61±3
Drying time to grade 3 (according to GOST 19007) at a temperature of (20±2) °C, min	not more than 30
Dry film thickness, µm	15-80
Wet film thickness, µm	35-200
Theoretical spreading rate of one-layer coating, g/m ²	45-240

Surface preparation

Carbon steel

- degrease the metal surface to the first grade according to GOST 9.402;
- cleaning from scale, rust and traces of old paint to grade 2 according to GOST 9.402 (Sa 2 ½ or St 3 according to ISO 8501-1);
- remove dust.

Stainless steel.

- degrease the metal surface to the first grade according to GOST 9.402;
- make the surface rough manually or mechanically using sandpaper or non-metallic abrasive
- remove dust.

Concrete surface.

The surface must be evenly rough and free from protruding reinforcement, cracks, pits, shells, sags, chipped edges, oil stains, dirt and dust.

- remove dirt, oil and grease;
- remove lime (cement) milk, damaged or peeling concrete layers and old coating with abrasive cleaning, grinder or brushes;
- remove dust;

- repair cracks and chips.

The holding time of the concrete base concrete placing and before primer enamel application is to be at least 28 days; after using leveling compounds – in accordance with the regulatory documents of the compound manufacturer. The moisture content of the concrete in the 20 mm thick surface layer is not to be more than 4% (there should be no film moisture on the concrete surface; the concrete surface should be air-dry to the touch).

The coating must be dry, clean and free of oil and dust before applying the subsequent layers.

Instructions for use

- mix homogeneously before use;
- dilute to working viscosity, if necessary.

It is recommended to apply the material in factory and field conditions at a temperature from minus 15 to plus 35 °C and relative air humidity not exceeding 85%. The temperature of the painted surface shall be at least 3 °C above the dew point.

The primer enamel to be applied shall have a temperature of at least plus 15 °C.

It is recommended to apply the primer enamel in 2 layers by airless, pneumatic (air) spraying with a brush/roller on a clean dry surface.

Recommended application parameters:

Airless spraying

Recommended thinners	without dilution
Pressure	12-19 MPa (120-190 bar)
Nozzle diameter	0.011"-0.019" (0.28-0.48 mm)

Pneumatic application

Recommended thinners	SOLVIN-12, SOLVIN-14, SOLVIN-15, xylene
Thinner amount	up to 8 % by mass
Pressure	0.2-0.4 MPa (2-4 bar)
Nozzle diameter	1.8-2.2 mm

Brush/roller

Recommended thinners	SOLVIN-12, SOLVIN-14, SOLVIN-15, xylene
Thinner amount	up to 8 % by mass

Equipment cleaning

SOLVIN-12, SOLVIN-14, SOLVIN-15, xylene

Drying between layers of the primer-enamel at a temperature of 20 °C for at least 1 hour. The drying time depends on the surface and ambient temperature, material dilution ratio, coating thickness, ventilation and relative air humidity.

The final formation of the primer enamel coating occurs as a result of hot-cure, according to the following regime: exposure to air at a temperature of (20±2) °C for at least 24 hours, then the temperature is rising to the operating temperature at a rate of no more than 5° C per minute and curing at this temperature for at least 1 hour.

The curing time of the coating before the operation is at least 24 hours at (20±2) °C and relative air humidity of 85%.

Packaging and storage

The material is packed in metal buckets and cans.

Storage conditions in accordance with GOST 9980.5 (at ambient temperatures from minus 40 to plus 40 ° C). The container with the material must not be stored near heat sources and exposed to precipitation and direct sunlight.

Guaranteed storage life of the primer enamel is 12 months from the date of manufacture.

Safety measures

When working, one shall observe the corresponding industrial standards, requirements and safety measures indicated on the container label.

Use personal protective equipment (goggles, masks, respirators), avoid inhalation of thinners during evaporation and contact of the material or its components with skin, eye and respiratory ways mucous membrane; use the material indoors only with sufficient ventilation.

The material is flammable!

The information is of general character, without consideration to the object specific nature and it is recommended to be read with the Application Guide. Use of materials for other purposes 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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