

Description

Single-packed anticorrosive composition based on organic-silicon heatproof lacquer and highly dispersed zinc powder.

The composition is a suspension of highly dispersed zinc powder in a modified organic-silicon heatproof resin with extenders and indirect materials additive agents.

Recommended use

Anticorrosive protection of steel articles and structures operated at high temperatures in the atmospheric conditions of all macroclimate areas, types of atmosphere and placement categories according to GOST 15150.

The composition is used at temperatures up to plus 350 °C (for a short time up to plus 400 °C) as a primer in complex protection systems with overlapping with the composition ALUMOTERM (TU 2312-020-12288779-2001), KO-811K or other heatproof organic-silicon enamels, as well as an independent anticorrosive coating.

Certificates, approvals

Certificate of state registration No. RU.66.01.40.015.E.000053.10.10 dated 11.10.2010, GOST 9.401-91 (amendment No. 2).

The register of Rosneft Oil Company, decision of Institute of Ecology and Evolution Problems RAS named after A.N. Severtsov (Russian-Vietnamese Research and Technology Center, Nyachang; SIC Sochi; CIS, Severomorsk).

Technical data

Coating	
Color and gloss of coating	light-gray; matte
Thickness of one layer, μm	30 - 70
Impact strength, cm	50, not less than
Adhesion (GOST 31149)	2 grades, not more than

Composition	
Density, g/cm ³	2.5 - 2.6
Non-volatile matter content, %	78 - 81
Theoretical spreading rate, g/m ²	180 - 420
Viscosity	thixotropic
Drying time to 3 degree (GOST 19007) at temperature (20±2)°C, min	30, not more than

Surface preparation

Surface preparation work:

- to degrease metal surface to 1 grade according to GOST 9.402;
- to do abrasive blast cleaning to 2 grade according to GOST 9.402 (Sa 2 ½ grade according to ISO 8501-1) with roughening, recommended surface profile is Rz = 30-50 μm. It is recommended to use grinding agent, which provides an acute angle (grit) surface profile; the use of manual and mechanized equipment is not allowed.

Preparation of the coating surface before application of the subsequent coating layers of or coating enamels layers on the ZINOTERM coating (if necessary):

- to degrease with aqueous solutions of detergents (solutions pH from 6 to 8);
- to dry and remove dust.

Application

Mix thoroughly to homogenous condition before application.

The composition is recommended to apply in plant and field conditions at temperature from minus 15 °C to plus 40 °C and relative air humidity up to 85 %.

The temperature of the composition during application should be not less than 15 °C to ensure necessary processing characteristics.

The composition should be applied in 1 or 2 layers; each subsequent layer should be applied at ambient temperature (20±2)°C not earlier than 30 minutes after the previous one (it is recommended to increase the holding time of the coating with decreasing temperature).

The minimum holding time for the ZINOTERM coating before the application of the ALUMOTERM composition is 2 hours, before the application of other coating materials – 24 hours; the maximum time is unlimited.

The forming of the ZINOTERM coating occurs in natural conditions, to get optimal physical and mechanical features and improved protective properties, the coating is to be heated to a temperature of 150 °C and then let it be withstood at least 3 hours.

Airless spray

Recommended thinner	without
Nozzle diameter	0.013" - 0.017" (0.33 - 0.43 mm)
Pressure	10 MPa (100 bar)

Conventional (air) spray

Recommended thinner	xylene, SOLV-UR® (TU 2319-032-12288779-2002)
Quantity	up to 10 % by mass
Nozzle diameter	1.8 - 2.2 mm
Pressure	0.20 - 0.25 MPa (2.0 - 2.5 bar)

Brush / roller

Recommended thinner	without
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Equipment cleaning

xylene, thinner 646

Storage and handling

The composition is delivered in metal buckets and cans.

Storage and transportation conditions of composition – according to GOST 9980.5 (at air temperature from minus 40 °C to plus 40 °C). The container with composition shall be protected from atmospheric condensation and direct sunlight.

The shelf life of the composition in hermetically enclosed original container is 6 months starting with the manufacture date.

Precautions

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

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

The composition is classified as a fire-hazardous material.

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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