

## Description

Single-packed composition based on a high molecular weight synthetic polymer  
According to the metal zinc mass content (more than 85 %), the coating meets the operational requirements SSPC Paint 20 (level 1, type II), can be considered as "cold" galvanizing.

## Recommended use

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

The ZINOL-SV composition is used as:

- primer under coating materials in complex protection systems;
- independent coating for the protection of welding structures of the railway rolling stock subjected to contact welding – when welding with a single layer coating thickness of 20-25 µm the quality of the weld does not deteriorate;
- to repair of zinc metal coatings.

As a topcoat on ZINOL-SV coating, it is recommended to use the aluminum-rich composition ALPOL (TU 2313-014-12288779-99), vinyl-epoxy and alkyd enamels; other enamels – as agreed with the manufacturer.

## Certificates, approvals

Certificate of state registration No. RU.66.01.40.015.E.000076.02.12 dated 28.02.2012  
GOST R 54893 "Passenger carriages for locomotive traction and motorized rolling stock. Requirements for paint coatings and anticorrosive protection";  
GOST 7409 "Freight cars. Requirements for paint coatings";  
"Technological instruction for applying materials with enhanced protective properties for contact welding of steel structures of the passenger car body"; All-Russian Scientific Research Institute of Railway Transport, Ministry of Transportation  
Decisions of All-Russian Scientific Research Institute of Railway Transport, 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	light-gray (the shade is not standardized), matte
Zinc mass content in dry coating, %	90, not less than
Thickness of one layer, µm	40 - 60
Adhesion (according to GOST 15140)	1 grade, not more than
(according to GOST 31149)	0 grade, not more than
Heat stability in dry atmosphere	120 °C, not more than
	Composition
Density, g/cm <sup>3</sup>	2.35 - 2.55
Assumed viscosity according to viscometer with a nozzle diameter of 4 mm at temperature (20±2)°C, s	30-130
Non-volatile matter content, %	77.0-81.0
Theoretical spreading rate of one-layer dry coating, g/m <sup>2</sup>	235-350
Drying time to 3 degree (GOST 19007) at temperature (20±2)°C, h	0.5, not more than

## Surface preparation

- to decrease metal surface to 1 degree according to GOST 9.402;
- to do abrasive blasting cleaning to 2 degree according to GOST 9.402 (Sa 2 ½ ISO 8501-1) with roughening recommended surface profile is Rz not more than 50 µm.  
Mechanized and manual surface cleaning to 3 degree according to GOST 9.402 (Sa 3 or St 2 according to ISO 8501-1) is allowed;
- to remove dust.

- Preparing the ZINOL-SV coating before applying the coating enamels:
- degrease (if necessary) with aqueous solutions of detergents (pH of solutions should be in the range of 6 to 8), slight degreasing (without grinding) using white spirit is allowed;
  - remove moisture and dust.

## Application

- mix thoroughly to homogenous condition before application;
- if necessary, the composition should be diluted to the working viscosity immediately before application:

Apply at an air temperature of minus 25 to plus 40 °C and a relative air humidity of up to 85 %.

Drying is natural.

When applying multi-layer coatings, each subsequent layer should be applied after the previous one has dried to "tack" (light pressure on the coating with a finger leaves no trace and does not give a sticky sensation).

The minimum coating time for coating before application of the ALPOL composition is 2 hours, up to other coating materials - 24 hours; the maximum time is not limited.

### **Airless spray**

Recommended thinner	SOLV-UR (TU 2319-032-12288779-2002), solvent or thinners P-4, P-5
Quantity	up to 5% by mass
Nozzle diameter	0.015" - 0.021" (0.38 - 0.53 mm)
Pressure	10 - 20 MPa (100 - 200 bar)

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

Recommended thinner	SOLV-UR, solvent or thinners P-4, P-5
Quantity	up to 5 % by mass
Nozzle diameter	1.8 - 2.2 mm
Pressure	0.3 - 0.4 MPa (3 - 4 bar)

### **Brush/roller**

Recommended thinner	SOLV-UR, solvent or thinners P-4, P-5
Quantity	up to 5% by mass

### **Equipment cleaning**

SOLV-UR,  
solvent or thinners 646, 647, 649.

## Storage and handling

The composition is packed in metal buckets or metal cans.

Storage and transportation conditions of composition – according to GOST 9980.5 (at temperature from minus 40 to plus 40 °C). The container with composition shall be protected from atmospheric condensation and direct sunlight; a short-term storage under direct sunlight, not more than 3 hours, is allowed.

The shelf life of the composition in hermetically enclosed original container is 12 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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