

anticorrosive composition (TS 2312-018-12288779-99)



# **Description**

Single-packed composition is a suspension of aluminum powder and functional additives in polyurethane lacquer and a mixture of organic thinners, the composition hardens by air moisture.

### 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, in fresh and sea water, in aqueous solutions of salts, acids and alkalies, in oil and oil products.

The composition is used as:

- topcoat for ZINOTAN, ZINEP and ZFES coatings for increasing the protective and decorative properties;
  - independent decorative coating for metal surfaces, operated in atmospheric conditions.

# Certificates, approvals

Certificate of state registration No. RU.66.01.40.015.E.000011.01.11 dated 28.01.2011.

**Industrial and civil construction:** GOST 9.401-2018, Guidance document Trust Gidromontazh (РД ГМ-02-18).

**Transport construction:** Central Scientific and Research Institute of Transport Construction Standart (СТО АО «ЦНИИТС»), GC Avtodor Standart.

Approved by Research Institute of Coating Industry with Experimental Mechanical Plant "Victoria", Central Scientific Research Institute of Construction, All-Russian Scientific Research Institute of Railway Transport, Institute of Energy Resources Transportation Problems, BashNIPIneft, Institute of Ecology and Evolution Problems RAS named after A.N. Severtsov (SIC, Sochi).

### **Technical data**

Coating

Color and gloss silvery-gray with shine

Dry film thickness,  $\mu m$  30-40

Impact strength, cm 50, not less than Elasticity when folding, mm 2, not more than

Adhesion 1 grade, not more than

Heat resistance in air 150 °C Coating class (GOST 9.032) IV

Composition

Density, g/cm<sup>3</sup> 0.98 - 1.10 Non-volatile matter content, % 50.0 - 53.0 Theoretical spreading rate, g/m<sup>2</sup> 70-90

Drying time to degree 3 according to

GOST 19007 at (20±2)°C

and relative humidity (65±5)%, hours 3, not more than

## Surface preparation

Before applying the composition ALUMOTAN, the primer must first be cleaned of dirt, degreased and dust-free.

When using the ALUMOTAN composition as an independent coating it is necessary:

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

## **Application**

- mix the composition thoroughly to homogenous condition before application;
- strain the composition through a grid with a mesh of 0.5 mm (500 μm);
- if necessary, dilute to working viscosity before application;

• in case of pause, limit contact with air (cover the bucket with the composition: put down the lid).

Apply in factory and field conditions at temperatures from minus 15  $^{\circ}$ C to plus 40  $^{\circ}$ C and relative humidity from 30 % to 98 %.

When the relative humidity of the ambient air rises, the drying time of the coating shortens. In factory conditions, with relative humidity less than 30 %, to shorten (in 1.5 - 2.5 times) the drying time, it is recommended to use a drying agent composition for polyurethane paint materials (TS 2359-047-12288779-2005).

The holding time of the primer before application of the ALUMOTAN composition at temperature of  $(20\pm2)$  °C and relative air humidity  $(65\pm5)$  %:

- ZINOTAN coating not less than 4 hours;
- ZFES coating not less than 6 hours;
- ZINEP coating not less than 4 hours.

Application methods:

#### Airless spray

Recommended thinner without

Nozzle diameter 0.015" - 0.019" (0.38 - 0.48 mm) Pressure 10 - 15 MPa (100 - 150 bar)

Conventional (air) spray

Recommended thinner SOLV-UR (TS 2319-032-12288779-2002),

a mixture of butyl acetate and white spirit in a volume ratio of 1:1

Quantity up to 5 % by mass Nozzle diameter 1.8 - 2.2 mm

Pressure 0.2 - 0.4 MPa (2 - 4 bar)

Brush/roller

Recommended thinner SOLV-UR,

a mixture of butyl acetate and white spirit in a volume ratio of 1:1

Quantity up to 5 % by mass

**Equipment cleaning** SOLV-UR,

Thinner's types 646, 647, 649.

Drying of the coating is natural. When applying several layers of ALUMOTAN coating, each subsequent layer should be applied after the previous one has dried to "tack" (slight touch on the coating does not leave a trace and does not give a feeling of stickiness).

## Storage and handling

The ALUMOTAN composition is delivered in metal containers.

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.

Shelf life of the 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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