

# ALUMOTAN®

MC polyurethane coating  
(TU 2312-018-12288779-99)



## PRODUCT DESCRIPTION:

ALUMOTAN is a one-component, moisture-cured polyurethane coating with leafing aluminium pigments.

## RECOMMENDED USE:

As an anticorrosive protection of structural steel and concrete in atmospheric conditions of all climatic regions, types of atmosphere, and category of location according to GOST 15150-69. ALUMOTAN has good resistance to sea and fresh water; salt solutions, acid and alkali solutions; petrol and related products.

It is recommended to be applied in coating systems as:

- a topcoat with ZINOTAN® (TU 2312-017-12288779-2003), ZINEP® (TU 2312-022-12288779-2000) and ZVES® (TU 2312-004-12288779-99);
- a single coat for protection of structural steel in atmospheric conditions.

## CERTIFICATES/APPROVALS:

State Registration Certificate No. RU.66.01.40.015.E.000011.01.11/28 January, 2011

GOST 9.401-91.

Recommendations RD GM-01-02 Trust Gidromontazh; STO 03-196-2006 ANK Bashneft; «Technical Instructions for painting of exploited railway bridges» (CTI 6/1) of Russian Railways OJCL.

Accredited laboratory conclusions of NII LKP with OMZ «Victoriya»; OJSC VNIIZHT; OJSC TSNIIS; Institute of Power Resources Transport; BashNIPIneft LLC; IPEE RAN A.N. Severtsov Institute of Ecology and Evolution of the Russian Academy of Sciences (Research and Test Center, Sochi, Russia).

## TECHNICAL DATA:

	Coating
Colors/Finish	Aluminium/Semi-gloss
Dry film thickness per coat (typical)	40 - 60 microns
Impact resistance, GOST 47-65-73	50 sm, not less
Bend test (cylindrical mandrel), GOST R 52740-2007	2 mm, not more
Adhesion, GOST 15140-78	1 grade, not more
Resistance to dry heat	up to 150 °C
Coating class, GOST 9.032-74	IV
	Paint
Specific gravity	0.98 – 1.10 g/ml
Non-volatile-matter content (Wt)	50.0 % - 53.0 %
Calculated coverage	90 - 140 g/m <sup>2</sup> (40 - 60 microns)
Drying time up to degree No 3 GOST 19007-73 ("touch-dry") at (23±2) °C and (65±5) % RH	3 h, not more

## SURFACE PREPARATION:

The primer surface should be dry and free from all contamination.

If ALUMOTAN is applied as a single coating it is necessary to:

- Remove oil and grease to achieve degree №1, GOST 9.402-2004;
- Blast slag, rust and old coating to achieve degree №2, GOST 9.402-2004 (Sa 2 1/2 or Sa 2, ISO 8501-1:2007). For mild exposures, power tool clean SSPC-SP3 is acceptable;
- Clean surface carefully from abrasives and dust.

## APPLICATION:

---

- Stir thoroughly;
- Add recommended thinner to achieve workable consistency if it is necessary.
- ALUMOTAN is sensitive to moisture. Keep the can tightly closed until use; avoid long contact with air.

It is recommended to be applied for shop and field painting at the temperature from -15 °C to +40°C and from 30 to 98% RH (from 40% to 98% is the best). When air humidity increases, drying time of the coating decreases.

When ALUMOTAN is applied in field painting at relative humidity less than 30 % It is recommended to is used the accelerator for polyurethane coatings (TR 2359-047-12288779-2005) for decreasing drying time (in 1.5-2.5 times). Consult VMP GROUP for further advice.

Minimum recoating interval of primers ALUMOTAN at (23±2) °C and (65±5) % RH for:

- ZINOTAN is 4 h, not less;
- ZVES is 6 h, not less;
- ZINEP is 12 h, not less.

Every next coat of ALUMOTAN is recommended to be applied after drying of the previous coat up to «touch-dry».

### **Airless spray**

Recommended Thinner	not recommended
Nozzle size	0.013" – 0.019" (0.33 – 0.48) mm
Nozzle pressure	10 - 15 MPa (100 - 150 bar)

### **Air spray**

Recommended Thinner	SOLV-UR (TU 2319-032-12288779-2002) or Solvesso 100 up to 10 % by weight
Nozzle size	1.8 – 2.2 mm
Nozzle pressure	0.2 – 0.4 MPa (2 - 4 bar)

### **Brush / Roller**

Recommended Thinner	SOLV-UR (TU 2319-032-12288779-2002) or Solvesso 100 up to 10 % by weight
---------------------	--

### **Equipment cleaner**

	SOLV-UR (TU 2319-032-12288779-2002), 646, 647, 649
--	--

## STORAGE AND HANDLING

---

ALUMOTAN is packaged in cans by 17 kg and 0.9 kg.

Store in dry, shaded conditions away from sources of heat, moisture and ignition, at the temperature from -40 °C to +40°C, GOST 9980.5-2009.

Guaranteed shelf life in the manufacturer's package units is 12 months from the date of packaging.

## SAFETY PRECAUTIONS:

---

It is necessary to follow all local or national safety regulations.



**VMP RESEARCH & PRODUCTION HOLDING JOINT-STOCK COMPANY (VMP HOLDING)**  
105, Amundsen St., **Ekaterinburg**, 620016, Russia, tel./fax.:+7 343 267 94 31; 266 09 15;  
E-mail: [office@fmp.ru](mailto:office@fmp.ru);  
WEB: [www.coldzinc.ru](http://www.coldzinc.ru)  
**Moscow**, tel./fax.: +7(495) 955-12-64; 955-12-63; e-mail: [svx@fmp.ru](mailto:svx@fmp.ru)  
**St. Peterburg**, tel./fax.: +7(812) 449-48-00; e-mail: [spb@fmp.ru](mailto:spb@fmp.ru)  
**Voronezh**, tel.: +7(4732) 20-55-98; e-mail: [zamet@comch.ru](mailto:zamet@comch.ru)  
**Novosibirsk**, tel.: +7(383) 205-07-00; e-mail: [alex@stroy-nsk.ru](mailto:alex@stroy-nsk.ru)