

# IZOLEP-mastic

surface tolerant epoxy coating  
(TU 2312-065-12288779-2007)



## PRODUCT DESCRIPTION:

IZOLEP-mastic is a two-component, high-solids, high build, polyamine cured modified epoxy coating with aluminium pigments. It has low VOC, low temperature curing.

## RECOMMENDED USE:

As an anticorrosive protective coating of structural steel in atmospheric conditions of all climatic regions, types of atmosphere, and category of location according to GOST 15150-69. It has excellent resistance to splash and spillage of sea and fresh water, salt solutions, petrol and related products. It is recommended to use for protection of external surface of water pipeline under heat insulation.

IZPLEP-mastic is recommended to apply:

- As a primer in coating systems with POLYTON-UR(UV) (TU 2312-033-12288779-2002), POLYTON-UR (TU 2312-029-12288779-2002), and other epoxy, polyurethane and acrylic coatings.
- As a single coating.

It is recommended for protection of new constructions and for high performance maintenance with excellent adhesion to tight rust and a wide range of existing coatings such as GF-021, FL-03K, VL-023, and other coatings based on epoxy and polyurethane.

## CERTIFICATES/APPROVALS:

State Registration Certificate No. RU.66.01.40.015.E.000019.02.11 / 03 February, 2011.  
Accredited laboratory conclusions of NII LKP with OMZ «Victoriya». Gazprom VNIIGAZ LLC; The Academy of community facilities n.a. Panfilov OJSC.

## TECHNICAL DATA:

	Coating	
Finish/Color		Aluminum-gray/semi-matt
Dry film thickness per coat (typical)		150 - 300 microns
Adhesion, GOST 15140-78		1 grade, not more
Resistance to dry heat		up to 150 °C
Coating class, GOST 9.032-74		VI
	Primer	
Specific gravity		1.30 – 1.40 g/ml
Viscosity		thixotropic
Non-volatile-matter content (Wt)		80.0 % - 85.0 %
Calculated coverage		275 - 550 g/m <sup>2</sup> (150 - 300 microns)
Pot life at:		
(10±2) °C		4 h, not less
(20±2) °C		2 h, not less
(30±2) °C		1 h, not less
Drying time up to degree No 3 GOST 19007-73 ("touch-dry") at (20±2) °C		5 h, not more

## SURFACE PREPARATION:

### Steel:

- Remove oil and grease to achieve degree №2, GOST 9.402-2004;
- Blast slag, rust and old coatings to achieve degree №2, GOST 9.402-2004 (Sa 2 1/2 or Sa 2, ISO 8501-1:2007). In repair and maintenance, power tool clean up to the third degree GOST 9.402-2004 (St 3/St 2, ISO 8501-1:2007; P St 3/P St 2 no ISO 8501-2:1994) is acceptable.

The dry film thickness of old coatings must be not more than 200 microns, adhesion is not less than 2 MPa (ISO 4624:2002) or not more than 3 grades (GOST 15140-78).

- Clean surface carefully from abrasive and dust.

### Surface preparation of IZOLEP-mastic before applying of topcoats:

- Remove oil and grease with suitable detergent;
- Remove salt, chalked coating and other contaminants by (high pressure) fresh water cleaning or sweep blasting;
- Clean damaged areas thoroughly by abrasive blasting or power tool cleaning (minor areas only).

## APPLICATION:

- Stir the base thoroughly.
- Add the total contents of curing agent to base (mixing ratio is 100 (base):9.7 (curing agent)) and continue the mixing until a complete uniform color is achieved. IZOPEP-mastic has no an induction time.

IZOLEP-mastic is recommended to be used for shop and field painting at the temperature from 0 °C to +40°C and up to 85% RH. Temperature of IZOLEP-mastic must be not less than +15°C.

### **Airless spray**

Nozzle size 0.017 " – 0.021" (0.43 – 0.53 mm)  
Nozzle pressure 20 MPa (200 bar), not less  
Recommended Thinner not recommended

### **Equipment cleaner**

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It is recommended to be used nozzle pressure up to 32 MPa (320 bar) at the temperature less 10 °C.

If IZOLEP-mastic is applied by brush or at temperature less 10 °C the thinner can be added up to 3 % by weight, but it can be the cause of decreasing of wet film thickness and changing of coating color.

Drying time depends on temperature, when temperature increases, drying time of the coating decreases.

Temperature, °C	Drying time up to degree No 3 GOST 19007-73 ("touch-dry"), h, not more
+ 30	4
+ 20	5
+ 10	18
+ 5	27

Minimum recoating interval of IZOLEP-mastic at (20±2) °C before applying of POLYTON-UR(UV) is 6 h; other topcoats is 7 h.

Maximum recoating interval of IZOLEP-mastic °C before applying of:

- POLYTON-UR(UV) is not more 3 months;
- POLYTON-UR and others is not more 6 months.

If recoating interval is exceeded it is necessary to apply sweep blasting to IZOLEP-mastic to provide good adhesion of topcoats.

The time of package and shipping is 24 ч. The time of full cure at (20±2) °C is 7 days.

## STORAGE AND HANDLING:

IZOLEP-mastic is packaged in cans by 10kg and 1.0 kg.

Store in dry, shaded conditions away from sources of heat, moisture and ignition; GOST 9980.5-2009.

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

## SAFETY PRECAUTIONS:

IZOLEP-mastic is fire-hazardous. 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)