

POLYTON-UR(UV)

topcoat
(TU 2312-033-12288779-2002)



Quality management system
is certified according to
ISO 9001:2008

PRODUCT DESCRIPTION:

POLYTON-UR(UV) is a two-component, gloss to flat acrylic polyurethane coating. Two grades are produced, A and B. Grade "A" is for general purpose. Grade "B" has a fungus resistance according to GOST 9.050-75. POLYTON-UR(UV) is available in a variety of colors according to catalogues RAL. The bright colors and shades of coating (orange, red, blue, black and etc.) has "TDL" marking on the label; pastel colors (pink, blue, grey and etc.) – "TAL".

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. POLYTON-UR(UV) has outstanding weather resistance with excellent color and gloss retention. It is recommended to be used as a topcoat in the coating systems with POLYTON-UR (TU 2312-029-12288779-2002), FERROTAN (TU 2312-036-12288779-2003), IZOLEP-mastic (TU 2312-065-12288779-2007), IZOLEP-primer (TU 2312-067-12288779-2008) and IZOLEP-mio (TU 2312-050-12288779-2005)

CERTIFICATES/APPROVALS:

State Registration Certificate No. RU.66.01.40.015.E.000146.12.10/ 20 December, 2010.
GOST 9.401-91, GOST 31384-2008, STO 001-2006 Transstroy LLC; Register of TR and TT AK Transneft OJSC; Register of Gazprom OJSC; Register and Technological Instruction of NK-Rosneft OJSC (P2-05 C-028 P-002 T-001).
Accredited laboratory conclusions of OJSC TSNIIS, NII LKP with OMZ «Victoriya», VNIIST OJSC, BashNIPIneft LLC, Gazprom VNIIGAZ LLC, RusHydro JSC, IPEE RAN A.N. Severtsov Institute of Ecology and Evolution of the Russian Academy of Sciences (Research and Test Center in Severomorsk and Sochi, Russia; Nha Trang, Vietnam).

TECHNICAL DATA:

	Coating	
Colors/Finish	Wide range via catalogues RAL /Gloss, Semi-gloss, Flat	
Dry film thickness per coat (typical)	50 - 70 micron	
Impact resistance, GOST 47-65-73	50 cm, not less	
Bend test (cylindrical mandrel), GOST R 52740-2007	10 mm, not more	
Adhesion, GOST 15140-78	1 grade, not more	
Resistance to dry heat	up to 120 °C	
Coating class, GOST 9.032-74	IV, not more	
gloss	V, not more	
semi-gloss, flat		
	Paint	
	TDL	TAL
Specific gravity	1.04 – 1.30 g/ml	1.15 – 1.35 g/ml
Relative viscosity according to viscosimeter B3-246 with the nozzle diameter 4 mm at the (20±2) °C, GOST 8420-74	55 - 120 s	35 - 100 s
Pot-life	4 ч, not less	7 ч, not less
Non-volatile-matter content (Wt)	53.0 - 67,0 %	57.0 – 70.0 %
Calculated coverage	120 - 190 g/m ² (50 - 70 micron)	
Drying time up to degree No 3 GOST 19007-73 ("touch-dry") at (23±2) °C and (65±5) % RH		
gloss	8 h, not more	7 h, not more
semi-gloss	8 h, not more	7 h, not more
flat	6 h, not more	5 h, not more

SURFACE PREPARATION:

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

APPLICATION:

- Stir the base thoroughly.
- Add the total contents of curing agent to base (or according to mixing ratio on the label) and continue the mixing until a complete uniform color is achieved.
- Add recommended thinner to achieve workable consistency if it is necessary.
POLYTON-UR(UV) is recommended to be used for shop and field painting at the temperature from +10 °C to +40°C and up to 75% RH.
POLYTON-UR(UV) is applied in 1-2 coats. It is recommended to be painted 2 coats for orange, red and yellow colors. Minimum recoating interval at (20±2)°C is 6 h.
Minimum recoating interval of primers/intermediates by POLYTON-UR(UV) for:
 - POLYTON-UR, FERROTAN, IZOLEP-mio is 24 h, not less;
 - IZOLEP-mastic is 6 h, not less;
 - IZOLEP-primer is 2 h, not less.The time of full cure at (20±2) °C is 7 days.

Airless spray

Recommended Thinner	not recommended
Nozzle size	0.011" – 0.015" (0.28 – 0.38 mm)
Nozzle pressure	10 - 15 MPa (100 - 150 bar)

Air spray

Recommended Thinner	SOLV-UR (TU 2319-032-12288779-2002) or c Solvesso 100 up to 5 % by weight of TAL and up to 10 % of TDL
Nozzle size	1.8 – 2.2 mm
Nozzle pressure	0.3 – 0.4 MPa (3 - 4 bar)

Brush / Roller

Recommended Thinner	SOLV-UR (TU 2319-032-12288779-2002) or c Solvesso 100 up to 5 % by weight of TAL and up to 10 % of TDL
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Equipment cleaner

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

STORAGE AND HANDLING

The base of POLYTON-UR(UV) is packaged in 20l, 3l and 1l cans; the curing agent is packaged in 3l and 0.5l cans.

Store in dry, shaded conditions away from sources of heat, moisture and ignition, GOST 9980.5-2009. The curing agent is stored at the temperature from +5 °C to +30°C.

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

SAFETY PRECAUTIONS

POLYTON-UR(UV) is **fire-hazardous**. It is necessary to follow all local or national safety regulations.



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