

POLYTON-UR

MC polyurethane coating
(TU 2312-029-12288779-2002)



PRODUCT DESCRIPTION:

POLYTON-UR is a one-component, moisture-cured polyurethane coating.

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 has good resistance to water, petrol and related products.

It is applied used as an intermediate or finish (if UV-radiation is not intensive) in the coating systems or a single coating.

It is recommended to be used in coating systems with:

- zinc-rich primers - ZINOTAN® (TU 2312-017-12288779-2003), ZINEP® (TU 2312-022-12288779-2000), ZVES® (TU 2312-004-12288779-99) and other polyurethane, epoxy and ethylsilicate primers;
- topcoats - POLYTON-UR(UV) (TU 2312-033-12288779-2002), POLYTON-AK (TU 2313-028-12288779-2002) and other polyurethane and acrylic topcoats.

CERTIFICATES/APPROVALS:

State Registration Certificate No. RU.66.01.40.015.E.000145.12.10/ 20 December, 2010.

Recommendations of Gosstroy R 1-2004, 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 NII LKP with OMZ «Victoriya»; Central Scientific and Research Design Institute n.a. Melnikov, OJSC TSNIIS; VNIIST OJSC, Gazprom VNIIGAZ LLC, NIIZHB LLC, BashNIPIneft LLC, RusHydro JSC.

TECHNICAL DATA:

	Coating
Colors/Finish	white, gray, red-brown (other colors via catalogues RAL, NOVA, NSC)/Flat
Dry film thickness per coat (typical)	50 - 70 microns
Impact resistance, GOST 47-65-73	50 sm, not less
Bend test (cylindrical mandrel), GOST R 52740-2007	2 mm, not more
Resistance to dry heat	up to 150 °C
Adhesion, GOST 15140-78	1 grade, not more
	Paint
Specific gravity	1.40 – 1.70 г/см ³
Viscosity	thixotropic
Non-volatile-matter content (Wt)	71.0 % - 79.0 %
Theoretical coverage	100 - 180 g/m ² (50 - 70 microns)
Drying time up to degree No 3 GOST 19007-73 ("touch-dry") at (23±2) °C and (65±5) % RH	4 h, not more

SURFACE PREPARATION:

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

APPLICATION:

- Stir the curing agent and base thoroughly until a complete uniform color is achieved;
 - Add recommended thinner to achieve workable consistency if it is necessary.
- POLYTON-UR 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 POLYTON-UR is applied in field painting at relative humidity less than 30 %

It is recommended to be used the accelerator for polyurethane coatings (TR 2359-047-12288779-2005) for decreasing drying time (in 2-4 times). Consult VMP GROUP for further advice.

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

- ZINOTAN is 4 h, not less (when air humidity decreases, recoating interval increases);
- ZINEP is 12 h, not less;
- ZVES is 6 h, not less.

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

Minimum recoating interval at (23±2) °C and (65±5) % RH to topcoat is 24 h.

Airless spray

Recommended Thinner	not recommended
Nozzle size	0.013" – 0.021" (0.33 – 0.53 mm)
Nozzle pressure	10 - 15 MPa (100 - 150 bar)

Airl spray

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

Brush / Roller

Recommended Thinner	SOLV-UR (TR 2319-032-12288779-2002) or Solvesso 100 up to 10 % by weight
Recommended Thinner	SOLV-UR (TR 2319-032-12288779-2002) or Solvesso 100, P-4, 647

Equipment cleaner

STORAGE AND HANDLING:

POLYTON-UR is packaged in cans by 25kg, 3.5 kg and 1.1 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:

POLYTON-UR has the fourth class of hazard, GOST 12.1.007-76. It is necessary to follow all local or national safety regulations.



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