

ISOLEP[®]-primer

anticorrosive coating
(TU 2312-067-12288779-2008)



Description

Double-packed epoxy primer with high solids, consisting of a base and a polyamine hardener. Contains anti-corrosive pigments: zinc phosphate (corrosion inhibitor) and iron mica (barrier-layer effect). High-build fast-drying coating, especially recommended for application in plant conditions.

Recommended use

Anticorrosion protection of steel articles and structures operated in the atmospheric conditions of all macroclimatic areas, types of environment and placement categories in accordance with GOST 15150.

Coating is recommended for application as an independent coating or in complex coating systems with coating enamels produced by VMP: ISOLEP-mio (TU 2312-050-12288779-2005), POLITON-UR (UV) (TU 20.30.12-033-12288779-2018), POLITON-UR (TU 2312-029-12288779-2002) and VINICOR-62 (TU 20.30.12-001-54359536-2018); with flame retardants PLAMCOR-2 (TU 2313-074-12288779-2008), PLAMCOR-3 (TU 2312-087-12288779-2012) and PLAMCOR-5 (TU 20.30.12-104-12288779-2017), as well as with other epoxy, vinyl-epoxy and polyurethane enamels.

Certificates, Approvals

Certificate of state registration No. RU.66.01.40.015.E.000059.03.11 dated 16.03.2011.

Certificate of conformance No. C-RU.ПБ34.B.01733 dated 15.05.2015, No. C-RU.ПБ34.B.01743 dated 03.06.2015.

Standard CTO-01393674-007-2011 JSC "CNIIS", the standard of State Company "Avtodor" STO-12288779-001-2013.

The decision of the accredited laboratory of the Research Institute of coating industry with experimental mechanical plant "Victoria".

Technical data

	Coating
Appearance and color	Coating of gray or red-brown color, not rated shade
Dry film thickness, μm	80-200
Adhesion (GOST 31149)	1 grade, not more than
Heat resistance (dry atmosphere)	120 °C
	Primer
Density, g/cm^3	1.50-1.60
Pot life at temperature (23 \pm 2)°C, h	2, not less than
Non-volatile matter, %	
- by volume, %	71 \pm 2
- by mass, %	79 \pm 2
Viscosity	Thixotropic
Wet film thickness, μm	110-280
Drying time at temperature (23 \pm 2)°C, h	
- to 3 degree (GOST 19007)	3
- to overcoating	2
Theoretical spreading rate for one-layer coating, g/m^2	170-420

Surface preparation

- to degrease metal surface to 1 grade according to GOST 9.402;
- to do abrasive blast cleaning to 2 grade according to GOST 9.402 (Sa 2 1/2 according to ISO 8501-1).
- to remove dust.

Before the application of coating enamels, the primer coating ISOLEP-primer must be decontaminated, degreased and dustless.

Application

- mix the primer base to a homogeneous condition before application;
- add a hardener to the primer base mixing ratio by volume 3:1, respectively), after mixing, the primer is ready for application;
- dilute with the thinner to the working viscosity immediately before application, if necessary.

The primer shall be applied at plant and field conditions at temperatures from minus 10 °C to plus 40 °C and relative air humidity not exceeding 85 %.

The temperature of the primer during application should be not less than 15 °C to ensure necessary processing characteristics.

When applying a primer using spraying method in the places of "spray overlap", the effect of "glossiness" of the coating is possible.

Recommended application methods:

Airless spray

Recommended thinner SOLV-EP (TU 20.30.22-106-12288779-2018)
Quantity up to 5 % by mass
Nozzle diameter 0.015"-0.021" (0.38-0.53 mm)
Pressure 15 MPa (150 bar)

Conventional (air) spray

Recommended thinner SOLV-EP
Quantity up to 10 % by mass
Nozzle diameter 1.8-2.2 mm
Pressure 0.3-0.4 MPa (3-4) bar

Brush/roller

Recommended thinner SOLV-EP
Quantity up to 10 % by mass

Equipment cleaning

SOLV-EP, thinners 646, P-4, oil solvent

Drying of the coating is natural. The drying time of the coating depends on the temperature – as it increases the drying time shortens.

Stages of drying	Time, hours, at ambient temperature					
	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C
to tack free	18	10	5	2	1	0,5
to 3 grade according to GOST 19007	24	14	7	3	2	1,5
to turning over, handling	29	18	10	6	4	3
to stackable	41	29	17	10	6	4

The specified hardening time is recommended to be taken as indicative of practical coloring. The hardening time depends on the surface temperature and ambient air, the degree of dilution of the material, the thickness of the coating, the efficiency of ventilation and the relative humidity of the air.

The time to handling and stackable depends on the design features (the number of points of support, sling patterns, fasteners for the further transportation) and may vary. It have to determinate in specific conditions.

The holding time of the ISOLEP-primer coating prior to packaging and shipment at a temperature of (23±2)°C is 24 hours; the time of full hardening of the coating is 7 days.

Storage and handling

The primer is delivered in packages: base and hardener packed in metal buckets and metal cans respectively depending on the set weight.

Storage conditions – in accordance with GOST 9980.5 (at air temperature from minus 40 to plus 40 °C). The material components shall be protected from direct sunlight and atmospheric condensation.

Shelf life of the primer is determined by the warranty period of storage of the base (24 months) and hardener (12 months) starting with the manufacture date.

Precautions

When working with the primer, the existing sectoral standard norms and requirements and safety measures as specified on the package label shall be observed.

Personal protective equipment (goggles, face masks and respirators) shall be used, and inhalation of thinners and contact of the composition substances with skin, ocular mucosa, respiratory channels shall be avoided; use inside the premises is allowed only in case sufficient ventilation is provided.

The primer is classified as a fire-hazardous material.

The information is of general character, without consideration to the object specific nature and it is recommended to be read with the Application Guide. Use of materials for other purposes 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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