



Release date: 18.03.2025
 Manufacturer: Russian Federation
 TY 20.30.22-008-69372620-2021

Primer-enamel Polytex ST

CERTIFICATE

Certificate of conformity to requirement documents is re-issue.
 State Registration Certificate № RU.8.08.09.008.E.000040.02.22 от 11.02.2022 г.
 MSDS №69372620.20.85255 от 14.11.2023 г.
 MSDS №69372620.20.85257 от 14.11.2023 г.
 Accelerated environmental tests are carried out in «LKP-Khotkovo-Test», LLC NPO «LKP» to confirm projected lifetime of the coating – 20 years.

DESCRIPTION

Two component polyurethane primer-enamel, hardened by aliphatic polyisocyanate.

FIELDS OF APPLICATION

Polytex ST primer enamel due to the corrosion inhibitor actively prevents the appearance of rust, so it has long-term protective and high decorative characteristics. It is available with a different degree of gloss: from deep matt to glossy, has a wide choice of color solutions. It does not require pre-priming. Suitable for repair work.

It is used to paint and provide long-term anti-corrosion protection of concrete, reinforced concrete and metal structures operated in the conditions of industrial atmosphere of moderate, cold and marine climates, including railway bridges, road bridges, road fences, construction cranes, power line supports, pipeline supports, antenna-mast structures, ground parts of piles, supports of pipeline overpasses, external surfaces of pipelines, external surfaces of diverse tanks and tanks for storing chemical reagents and petroleum products, underwater parts of hydraulic structures and other metal structures and equipment exposed to atmospheric corrosion.

Polytex ST enamel primer has good adhesion, bending strength, increased resistance to moisture, as well as increased hardness, strength and abrasion resistance, oil and gasoline resistance, and resistance to mineral fertilizers. It is used in conditions of diverse aggressive impacts – chemical, atmospheric, mechanical.

Information on the material resistance to various media is available on request.

Main applications: oil and gas industry, power engineering, mechanical engineering, chemical industry.
The material is approved by Railway Research Institute of JSC Russian Railways and can be used for painting freight cars. According to the results of accelerated climatic tests, the coating has a service life of 12-20 years, depending on the thickness of the dry film (120-170 microns).

TECHNICAL DATA

Colour	Colour list of RAL	
Gloss	G035: 0-35 G3570: 35-70 G7095: 70-95	
Mass fraction of dry residue component A	58-68%(depending on colour and gloss grade)	
Adhesion to metal (GOST 15140), no more	1 point	
Density component A	1,18±0,08 g/cm ³	
Density components A+B	1,15±0,08 g/cm ³	
Max. one layer thickness, viscosity 25 s	(modification G3570) 200 microns wet layer	
Max. one layer thickness, viscosity 40 s	(modification G7095) 200 microns wet layer	
Dry volume residue	53±5 %	
Dry film thickness and estimated consumption	Dry film thickness, microns	Estimated consumption, g/m ²
min	40	87
max	260	564



Hardener

PolytexST
Polytex ST2

Due to the wide range in color and / or gloss, this description is informative.

Certificate of quality is the document confirming the quality of each production lot.

INSTRUCTION FOR USE

Metal surface should be abrasive blasted to grade 1 or 2 to GOST 9.402 (Sa 2,5 or Sa 2 по ISO 8501-1:2007). Clean surface must be free from dust and grease.
If the quality of surface preparation decreases, the service life and its operating performance may change.

CONDITIONS

Ambient temperature from +5°C to +30°C.
Relative air humidity no more 80%.

APPLICATION

Blending	Polyurethane primer-enamel consists of two components: component A - basis, component B - hardener. Before use, pre-mix component A with a low-speed drill with mixing nozzle, then mix with component B in stoichiometric ratio in the delivery form. Mix the resulting material thoroughly until smooth. After the hardener is added into the semi-finished product, the material should be allowed to stand for at least 5-10 minutes.
Proportions	<p>Hardener PolytexST 100:15 by weight 6,0:1 by volume</p> <p>Hardener PolytexST2 100:12 by weight 8,0:1 by volume</p>
Pot life at 20±2°C, no less	5 hours
Air-free spraying	Thinning: 5-30% Nozzle diameter: 0,011-0,017" Initial pressure: 120-160 atm
Air spraying	Operation viscosity: 25-60 s Thinning: 5-35% Nozzle diameter: 1,8-2,5 mm Initial pressure: 3,0-4,0 atm
Air spraying RAL 9006	Operation viscosity: 18-25 s Thinning: 20-30% Nozzle diameter: 1,4-1,8 mm Initial pressure: 2,0 atm
	The maximum thickness of a single-layer coating at a viscosity of 18-25 seconds is 100-125 microns. In a wet film thickness of 100-125 microns (dry film thickness 20-30 microns), a uniform distribution of pigment and color is observed. If a larger dry film thickness is required, the material is applied in two layers with interlayer drying in a chamber of 40-60 ° C -20-30 minutes or at a temperature of 20 ° C - 60 minutes. Due to the specifics of aluminum pigments, thorough mixing of the mixture is required during work interruptions.
Cross linking at 20°C	30 min
Brush, roller	Can be recommended for small and hard-to-reach areas. Thin the primer-enamel depending on the working conditions when using brush.
Thinner	Formula thinner Polytex, Polytex SLOW, Polytex F.
Cleaner	Formula thinner Polytex, thinners of type P4, P5.
Finishing	Tubing, pistol and other spraying tools must be cleaned after using.
Cleaning	Clean straight after using due to painting equipment manual.



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DRYING TIME

Surface temperature	+5°C	+10°C	+20°C	+30°C
Degree 1 (GOST 19007)	7 h	5 h	2,5 h	2 h
Degree 3 (GOST 19007)	10 h	7 h	5 h	4 h
Minimum recoating interval	5 h	3 h	30 min	30 min
Start of operation	14 d	10 d	7 d	7 d

Minimum recoating interval: the minimum recommended time the next coat to be applied.

Start of operation: the minimum time the coating to be exposed to a given environment.

These data should be considered only as indicative for a wet film thickness of 100 microns.

PACKAGE SIZE

Metal euro bucket 21 l: basis 18 kg
Metal bottle 3 l: hardener 2,7 kg (hardener Polytex ST).

Metal euro bucket 21 l: basis 18 kg
Metal bottle 3 l: hardener 2,2 kg (hardener Polytex ST2).

STORAGE

Store in a tightly closed container in a closed dry room at a temperature from - 40 ° C to + 40 ° C, away from sources of ignition, protecting from mechanical damage, direct sunlight and moisture.

GUARANTEED STORAGE LIFE

Polytex ST basis (component A) guaranteed shelf life is 24 months from the date of manufacture, subject to the consumer's compliance with the rules of transportation and storage

Polytex ST, Polytex ST2 hardener (component B) guaranteed shelf life is 24 months from the date of manufacture, subject to the consumer's compliance with the rules of transportation and storage
After expire date shouldn't be used without tests.

HEALTH AND SAFETY

When painting work, use personal protective equipment (respirators, gloves, glasses, etc.). Work inside the room should be carried out with artificial (local, general) or natural ventilation. Use the primer enamel only in places without sources of open fire and ignition. Avoid contact with skin or eyes. In case of skin contact immediately wipe with a rag or cotton swab, rinse thoroughly with soapy water, do not use solvents. In case of eyes contact rinse with clean water for at least 10 minutes, consult a doctor. In case of ingestion, consult a doctor.

RECYCLING

Packing materials are recycled as consumer waste.

Further Information.

The recommendations above are based on our own research and our best knowledge but don't fully guarantee any particular case as it depends on the quality, friability and porosity of the base. The local working conditions and methods may vary and are beyond our control. Therefore we cannot be held responsible for the actual work on the site. The information is currently updating.



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