



000 «Полимер Экспорт»

ПРОМЫШЛЕННЫЕ ЛАКОКРАСОЧНЫЕ ПОКРЫТИЯ

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Release date: 14.08.2023.  
Manufacturer: Russian Federation  
ТУ 20.30.22-008-69372620-2021

## Enamel Polytex ST

### CERTIFICATE

Certificate of conformity to requirement documents № ПООС RU Д-RU.PA02.B.12416/21 from 23.12.2021.  
State Registration Certificate № RU.8.08.09.008.E.000041.02.22 from 11.02.2022.  
Safety data sheet of chemical products from 28.01.2022/  
**System including enamel «Polytex» and primer «Eppex» undergone** accelerated environmental tests in «LKP-Khotkovo-Test», LLC NPO «LKP» to confirm projected lifetime of the coating – 20 years.  
Enters the system СТО-01393674-007-2019 "Protection of metal structures of bridges from corrosion by painting".

### DESCRIPTION

Two component polyurethane enamel, hardened by aliphatic polyisocyanate.

### FIELDS OF APPLICATION

**Polytex ST enamel is used to form UV-resistant glossy (with a gloss of up to 95%) finishing coatings, with high requirements for appearance.** Enamel Polytex ST has a smooth shine, excellent shock resistance, bends and other mechanical impacts.

It is used to paint transport structures, construction and agricultural machinery, railway and urban transport, oil and gas pipelines, power transmission towers and cell towers, steel tanks, machine tools, equipment and other primed metal surfaces, with high requirements both for wear resistance and appearance.

The enamel is resistant to abrasion, static water effects, sodium chloride solution and transformer oil. It has an increased hardness and rapid formation of the paint coating under normal application conditions.

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

Main fields of application: oil and gas industry, power engineering, capacitive equipment, mechanical engineering, chemical industry.

### TECHNICAL DATA

<b>Colour</b>	Colour list of RAL	
<b>Gloss</b>	G035: 0-35%; G3570: 35-70%; G7095: 70-95%.	
<b>Mass fraction of dry residue component A</b>	52-65% (depending on colour and gloss grade)	
<b>Adhesion to metal (GOST 15140), no more</b>	1 point	
<b>Density component A</b>	1,13±0,08 g/cm <sup>3</sup>	
<b>Density components A+B</b>	1,08±0,08 g/cm <sup>3</sup>	
<b>Max. one layer thickness, viscosity 25 s</b>	100 microns dry layer	
<b>Dry volume residue</b>	50±5% (depending on colour and gloss grade)	
<b>Dry film thickness and estimated consumption</b>	Dry film thickness, microns	Estimated consumption, g/m <sup>2</sup>
<b>Min.</b>	40	86
<b>Max.</b>	80	172
<b>Open time to grade 3 at 20±2°C, no more (wet film thickness 100 microns)</b>	5 hours	
<b>Hardener</b>	Polytex ST, Polytex ST2	
<b>Readiness for operation</b>	7 days	

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 to ISO 8501-1:2007). Clean surface must be free from dust and grease.



Собственное современное производство



Система Менеджмента Качества (ISO 9001)



Аттестованная лаборатория



На рынке с 2002 года



If the quality of surface preparation decreases, the service life and its operating performance may change.

#### CONDITIONS

Two component polyurethane enamel Polytex ST is applied on primed surface with ambient temperature from +5°C to +30°C and air humidity no more than 80%.  
Basis temperature higher than dew point no less than 3°C.

#### APPLICATION

<b>Blending</b>	Polyurethane 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.
<b>Proportions</b>	<p><b>Hardener PolytexST</b> 100:17 by weight 6,0:1 by volume</p> <p><b>Hardener PolytexST2</b> 100:14 by weight 7,5:1 by volume</p>
<b>Pot life at 20°C, no less</b>	No less than 5 hours
<b>Air spraying</b>	Operational viscosity: 18-35 s Thinning: 5-30% Nozzle diameter: 1,4-2,0 mm Initial pressure: 3-4 atm
<b>Air free spraying</b>	Thinning: 5-30% Nozzle diameter: 0,111-0,513" Initial pressure: 120-160 atm
<b>Cross linking at 20°C</b>	30 min
<b>Brush, roller</b>	Can be recommended for small and hard-to-reach areas. Thin the primer-enamel depending on the working conditions when using brush.
<b>Thinner</b>	Formula thinner Polytex, PolytexF, PolytexSLOW.
<b>Cleaner</b>	Formula thinner Polytex, RP-1K, thinners of type P4, P5.
<b>Finishing</b>	Tubing, pistol and other spraying tools must be cleaned after using.
<b>Cleaning</b>	Clean straight after using due to painting equipment manual.

#### PACKAGE SIZE

Metal euro bucket 21 l: basis 16 kg  
Metal bottle 3 l: hardener 2,7 kg (hardener Polytex ST)

Metal euro bucket 21 l: basis 16 kg  
Metal bottle 3 l: hardener 2,3 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

Expire date is 12 months in case if delivery and storing rules are followed. 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 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.



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**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.

