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Manufacturer: Russian Federation  
ТУ 20.30.22-008-69372620-2021

# Primer-enamel Polytex ST

## CERTIFICATE

Certificate of conformity to requirement documents № ПООС RU Д-РУ.РА02.В.12416/21 from 23.12.2021.  
State Registration Certificate № RU.8.08.09.008.E.000040.02.22 from 11.02.2022.  
Safety data sheet of chemical products from 28.01.2022  
Accelerated environmental tests are carried out in «LKP-Khotkovo-Test», LLC NPO «LKP» to confirm projected lifetime of the coating – 20 years.  
Conclusion of Scientific Research Institute of Railway Transport for the service life of the coating for at least 12 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	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	1,2±0,05 g/cm <sup>3</sup>	
Density components A+B	1,10±0,05 g/cm <sup>3</sup>	
Max. one layer thickness without thinning	162 microns dry layer 300 microns wet layer	
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 <sup>2</sup>
min	40	87
max	260	530
Open time to grade 3 at 20±2°C, no more (wet film thickness 100 microns)	5 hours	



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**Hardener** PolytexST  
Polytex ST2

**Readiness for operation** 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 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**  
**Hardener PolytexST**  
100:15 by weight  
6,0:1 by volume  
**Hardener PolytexST2**  
100:12 by weight  
8,0:1 by volume

**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

**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.

#### PACKAGE SIZE

Metal euro bucket 21 l: basis 18kg  
Metal bottle 3 l: hardener 2,7 kg (Hardener PolytexST)  
Metal euro bucket 21 l: basis 18 kg  
Metal bottle 3 l: hardener 2,2 kg (Hardener PolytexST2)

#### 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.



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#### 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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