



ООО «Полимер Экспорт»

ПРОМЫШЛЕННЫЕ ЛАКОКРАСОЧНЫЕ ПОКРЫТИЯ

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Release date: 1.10.2024.
Manufacturer: Russian Federation
ТУ 20.30.22-008-69372620-2021

Enamel Polytex ST

CERTIFICATE

State Registration Certificate № RU.8.08.09.008.E.000041.02.22 от 11.02.2022 г.
Safety data sheet of chemical products from 28.01.2022 г.
MSDS №69372620.20.85257 от 14.11.2023 г
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 CTO-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

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

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

Blending	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.
Proportions	<p>Hardener PolytexST 100:17 by weight 5,5:1 by volume</p> <p>Hardener PolytexST2 100:14 by weight 7,0:1 by volume</p>
Pot life at 20°C, no less	No less than 5 hours
Air spraying	Operational viscosity: 18-25 s Thinning: 10-30% Nozzle diameter: 1,5-1,7 mm Initial pressure: 3-4 atm
Air free spraying	Nozzle diameter: 0,111-0,513" Initial pressure: 120-150 atm
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, PolytexF, PolytexSLOW.
Cleaner	Formula thinner Polytex, RP-1K, 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.

DRYING TIME

Surface temperature	+5°C	+10°C	+20°C	+30°C	+40°C
Degree 1 (GOST 19007)	5 h	4,5 h	3,5 h	2,5 h	1,5 h
Degree 3 (GOST 19007)	9 h	7 h	5 h	4 h	3 h
Minimum recoating interval	5 h	2 h	30 min	20 min	20 min
Start of operation	14 d	10 d	7 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 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 2,2 kg (hardener Polytex ST2)



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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 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.



На рынке с 2002 года