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Manufacturer: Russian Federation

ТУ 20.30.22-008-69372620-2021

# Primer - enamel Polytex BST

## CERTIFICATE

Declaration of Conformance 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.

## DESCRIPTION

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

## FIELDS OF APPLICATION

**Polytex BST enamel primer, due to the corrosion inhibitor, actively prevents rust formation, so possess long-term protective and high decorative characteristics.** It is available with various degrees of gloss: from deep matt to glossy as well as there is a wide choice of color solutions. It does not need pre-priming. **Suitable for repair work.**

**Polytex BST** is used to paint and give long-term anti-corrosion protection of concrete, reinforced concrete and metal structures operated in the conditions of industrial atmosphere of moderate, cold and marine climate, 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 facilities and other metal structures and equipment exposed to atmospheric corrosion.

PolytexBST 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.

## TECHNICAL DATA

Colour	Colour list of RAL	
Gloss	G035: 0-35% G3570: 35-70%	
Mass fraction of dry residue component A	65-75% (depending on colour and gloss)	
Adhesion to metal (GOST 15140), no more	1 point	
Density component A	1,37±0,09 g/cm <sup>3</sup>	
Density components A+B	ST, ST2 1,34±0,08 g/cm <sup>3</sup> ST2S 1,24±0,08 g/cm <sup>3</sup>	
Max. one layer thickness, viscosity 100 s	500 micron wet layer	
Max. one layer thickness, viscosity 25 s	250 micron wet layer	
Max. one layer thickness, viscosity 50 s	400 micron wet layer	
Dry volume residue	ST, ST2 60±3 % ST2S 47±3 %	
Dry film thickness and estimated consumption	Dry film thickness, micron	Estimated consumption, g/m <sup>2</sup>
min	40	90
max	260	580
Open time to grade 3 at 20±2°C, no more (wet film thickness 150 microns) at 60±2°C (dry film thickness 100 мкм)	30 min	
Hardener	Polytex ST Polytex ST2 Polytex ST2S	



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 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

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

#### APPLICATION

<b>Blending</b>	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.
<b>Proportions</b>	<p><b>Polytex ST hardener</b> 100:12 by weight 7:1 by volume</p> <p><b>Polytex ST2 hardener</b> 100:10 by weight 9:1 by volume</p> <p><b>Polytex ST2S hardener</b> 100:25 by weight 3:1 by volume</p>
<b>Pot life at 20 ±2°C, no less</b>	4 h
<b>Air-free spraying</b>	Thinning: 5-30% Nozzle diameter: 0,011-0,017" Initial pressure: 120-160 atm
<b>Air spraying</b>	Operational viscosity: 25-100 s Thinning: 5-35% Nozzle diameter: 1,8-2,5 mm Initial pressure: 3,0-4,0 atm
<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, Polytex SLOW, RP-1K.
<b>Cleaner</b>	Formula thinner Polytex, thinner of type P-4.
<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.

#### DRYING TIME

Surface temperature	+5°C	+10°C	+20°C	+30°C	+40°C
Degree 1 (GOST 19007)	6 h	3,5 h	1 h	45 min	30 min
Degree 3 (GOST 19007)	10 h	6 h	3 h	1,5 h	50 min
Minimum recoating interval	1 h	1 h	30 min	30 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.



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#### PACKAGE SIZE

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

Metal euro bucket 21 l: basis 18 kg  
Metal bottle 3 l: hardener 1,8 kg (Polytex ST2 hardener)

Metal euro bucket 21 l: basis 18 kg  
Metal bottle 5,2 l: hardener 4,5 kg (Polytex ST2S hardener)

#### 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 BST 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, Polytex ST2S 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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