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Primer - enamel Polytex BS

CERTIFICATE

Certificate of conformity № ПОСС RU Д-RU.PA01.B15285/25 from 19.05.2025
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 BS primer enamel is used as a self-priming anti-corrosion coating with an accelerated open time and a fast mounting strength. It is available with a different degree of gloss: from deep-matt to high-gloss, has a wide choice of color solutions. It does not require pre-priming. Thick-layer application is possible. It is used to paint and provide long-term anti-corrosion protection of internal and external surfaces of various vehicles: agricultural machinery, construction equipment, public transport (buses, trolleybuses, trams, etc.), railway transport, as well as other metal structures. Primer-enamel has increased strength, hardness, abrasion resistance and accelerated open time. It is successfully used in moderate, cold and marine climates, providing long-term protection against corrosion. **Information on the material resistance to various media is available on request.** Main applications: mechanical engineering.

TECHNICAL DATA

Colour	Colour list of RAL	
Gloss	G035: 0-35%; G3570: 35-70%; G7095: 70-95%.	
Mass fraction of dry residue component A	55-68%(depending on colour and gloss grade)	
Adhesion to metal (GOST 15140), no more	1 point	
Density component A	1,25±0,15 g/cm ³	
Density component A+B	1,17±0,15 g/cm ³	
Max. one layer thickness without thinning	300 microns wet layer	
Max. one layer thickness, viscosity 25 s	200 microns wet layer	
Dry volume residue	52±5 %	
Dry film thickness and estimated consumption	Dry film thickness, microns	Estimated consumption, g/m ²
	min	40 90
	max	200 450
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 Sa 2,5 or Sa 2 to GOST R ISO 8501-1-2014. 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 primer-enamel Polytex BS is applied on prepared surface, with ambient temperature from +5°C to +30°C and air humidity no more than 80%.

APPLICATION

Basis temperature higher than dew point no less than 3°C.

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	Polytex ST hardener 100:12 by weight 7:1 by volume Polytex ST2 hardener 100:10 by weight 9:1 by volume
Pot life at 20 ±2°C, no less	7 hours
Air-free spraying	Thinning: 0-30% Nozzle diameter: 0,011-0,017" Initial pressure: 120-160 atm
Air spraying	Operational viscosity: 25-60 s Thinning: 10-35% Nozzle diameter: 1,8-2,5 mm Initial pressure: 3,0-4,0 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, Polytex SLOW.
Cleaner	Formula thinner Polytex, RP-1K, RP-1KF, 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	2,5 h	1,5 h	40 min	40 min
Degree 3 (GOST 19007)	7 h	4 h	2 h	1 h	50 min
Minimum recoating interval	5 h	2 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.

PACKAGE SIZE

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

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



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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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