

Powder varnish P-PUR-1665

Use	For getting colorless coatings, as well as top application of pre-painted products and obtaining coating system with improved decorative and protective properties..
Composition	Homogeneous mixture of solid hydroxyl-containing polyester resins and hardener with pigments, fillers and special-purpose additives.
Application area	For coloring various metal products relating to machine-building, instrument-building, automobile industry, agricultural machinery, consumer goods, sport and game stock, construction designs and their elements, window and gate system operated indoors and outdoors.

Pre-treatment	Surface should be carried out depending on metal and subsequent operating conditions. The surfaces should not have burrs, burn-through, a metal discontinuities as cracks, etc. The radius of curvature of the sharp edges should be not less than 0.3 mm. Preparation before paint application should be done in accordance with GOST 9.402. Degreasing degree - 1, the surface cleaning degree from remove scale and rust - 2. It is allowed to prepare surfaces in ways are not provided in GOST 9.402. The pre-treatment process should include adhesion and a sufficient degree of purification from substances preventing staining and accelerate corrosion processes. The chemical pretreatment of the metal is recommended for the best protective properties/
Application method	electrostatic or tribostatic
Curing	15 min/ 200 °C – object temperature

Properties	Powder form	Fine powder without lumps or impurities.
	Density g/cm³	1,1-1,2
Surface properties	Not solid contents weight	Not more than 1%
	Grading	- residue on sieve 0100,% , not more 5.0
	Color	Colorless
	Appearance	Same texture surface without mechanical impurities.
	Mechanical properties	Coating impact strength, cm, not less than 50* - Elasticity of the coating upon flexuring , mm, not more than 3* - Hardness of the coating upon tension , mm, not more than 5* - Adhesion of the coating, points, not more than 1* - Gloss of smooth coating at an angle of 60° glossy More than 80 semigloss 51-75 semi-matt 37-50 matt 20-36 deep matt Less than 20
* - the recommended thickness 60-80 mkm		

Thickness	Recommended thickness 60 – 80 mkm.
Theoretical Consumption	85 – 130 g/m ² (by the film thickness 60-80 mkm). Consumption can fluctuate depending on the equipment, surface quality, personal qualification etc.
Transportation and storage:	Powder coatings are transported in closed packing under the temperature from -40°C to +27°C. Shelf life — 18 month from the production date. Powder coatings store in a closed container at a temperature not more than 27 °C and at a relative humidity of 75%, at least 1 m from heating. The warranty period is 18 months from the manufacture date. Closed box of powder coatings must undergo acclimatization before opening within 48 hours in the operating room.

Accident prevention	Application has to be done indoor with installed ventilation providing clean air in the working area. Personal should have special equipment, clothes and personal protection organs equipment. Powder coatings can be explosive. During the work do not admit source of ignition, sparking, overheating of the powder, cloud formation and powder dust accumulation. Do not smoke.
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The product is intended only for the professional use by the consumer with sufficient knowledge in powder coatings application and labor safety. This technical data sheet is not comprehensive and is based on laboratory research and our experience. Product usage and results are determined in a greater degree by the consumer conditions, as well as compliance with the manufacturer's recommendations. In the absence of control over all conditions observance from our side, we are not responsible for the end results, but we are responsible for the material quality according to the quality system acting in MAV Ltd.