BPCOAT TECHNICAL DATA SHEET

CERTIFICATE NO. 100220/0001

PRODUCT DETAILS Type: BPCOAT-PU SERIES (POLYURETHANE) Sample Name: BEIGE SMOOTH GLOSSY ANTI GRAFFITI Sample Code: 61S1H0338

BPCOAT-PU Series are caprolactam-free-IPDI cured polyester based powder coating used for both indoor and outdoor applications with very good chemical and physical resistance. This series show outstanding thin-film appearance and toughness with excellent weather resistance. Advantages are higher transfer efficiency, excellent storage stability, better flow of surface, superior mar resistance and they are highly resistant to humidity and salt spray.

Technical Properties

Units(Methods)	Value
	PU (Polyurethane)
	Smooth
	Beige
(EN ISO 8130-3)	1,59
(EN ISO 2813 60 °)	80-85 gloss
Buchholz (EN ISO 2815)	>90
(EN ISO 8130-5)	100-140
(EN ISO 1520),mm	>6mm
(EN ISO 6272) kg.cm	>120
(EN ISO 2409)	Excellent. Gt = 0
(EN ISO 1519)	>2mm
(EN ISO 9227)	1000 Hour. No blistering
DE	<2-3
(ASTM D4587), DE	Excellent
	Units(Methods)

*All tests are done on steel and aluminium panels, chemically treated

Chemical Resistance Tests

BPCOAT-PU Series are resistant to wide variety of solvents and chemicals depending on formulation. Chemical resistance requirements must be considered according to processing conditions and final use of the finished product.

Application Area

Aluminium profile, Automotive accessories and Agricultural machinery, Window frames and doors, Electrical Switchboxes, Radiators & Heaters, Ventilation Equipment, and domestic appliance.



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Pre Treatment

Powder coating is primarily used in steel, galvanized steel, aluminum, copper and zinc alloy metal surfaces. To prevent oxidation of the surface is usually oily and greasy which cause several problems for coating. So metal surface should be cleaned by a variety of chemical methods prior to coating methods in order to get the highest performance. Oil, soil, metal oxides, rubber and plastics must be thoroughly removed.

In order to improve corrosion resistance, iron phosphate or zinc phosphate is strongly used for steel surfaces. And Aluminum surfaces should be pre-treated using a chromate system prior to powder coating.

Application Method

BPCOAT-PU Series is applied by applied by tribo or corona charging at 30 to 100 kV.

Curing Conditions/ Conventional oven ;

Minimum 180°C / 10 min. (metal temperature) Maximum 200°C / 10 min. (metal temperature)

Theoretical Coverage

Covering rate is 10,46 m2/kg at recommended film thickness of 60 μ m based on our experiences. It is depent on color, specific gravity, conditions of application and shape of profile.

Storage

BPCOAT-PU Series is stored at the temperature below 25°C and approximately 50 - 60% relative humidity for one year, in original packaging (25 kg package).

For Reference Only!

All specifications in this technical data sheet are based on our current knowledge. The possibility of product development, this specification is subject to change without notice.

We recommend users to test the product in their work side before repetitive use by using this data just as a guide.

More details on our web site at: www.bpc.com.tr Send technical inquiries to bpc@bpc.com.tr

