



POLYESTER SUPERDURABLE PS2000 SERIES - POWDER COATING

Product Description:

National Paints PS2000 Series is an architectural super durable powder coating based on specially selected polyester resins and hardeners to give enhanced performance against UV light and humidity. It is developed to satisfy the requirements of exterior durability with attractive decorative finishes combined with optimum protective properties. PS2000 series offer excellent gloss retention and resistance to color change properties.

PS2000 Series is available in selected RAL Colors, other colors can be available upon technical assessment.

Application Areas:

PS2000 Series is mainly recommended for Exterior architectural applications. It's available in selected exterior durable colors. Typical application areas are Aluminum Industry, Air conditioner cabinets, Playground item, Architectural items, Light Fixtures etc.

Powder Application:

National Paints PS2000 Series can be applied by corona Electrostatic Powder Spray – 40 to 100 KV. Over spray powder can be reclaimed using suitable equipments and recycled through the coating systems.

Pre-Treatment:

Substrate should be free of grease, oil, dirt, and finger prints. Remove all contamination and apply surface treatments to get optimum adhesion and coating performance properties. The recommended types of pre-treatments for the most frequently used substrates are:

For Aluminium -: *Chromate treatment*

Product Warranty:

PS2000 Series comes with 25 years product warranty for exterior durability when applied on Aluminium substrates, subject to terms & conditions.

Your World. Our Colors.

صالح آلواننا

National Paints Factories Co. Ltd.

Tel: +971 6 5130000, Fax: +971 6 5340222

P.O. Box: 5822, Sharjah - U.A.E.

ISO 9001 & 14001
OHSAS 18001
CERTIFIED FACTORY

www.national-paints.com

شركة مصانع الأصباغ الوطنية المحدودة

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Powder Properties:

Chemical Type	-:	Polyester Super Durable – PS2000 Series	
Gloss @ 60° (ISO-2813)	-:	PS2008 (Glossy Finish) -	85 (+/-) 10
		PS2006 (Semi-glossy) -	65 (+/-) 7
		PS2003 (Matt Finish) -	35 (+/-) 7
Particle Size	-:	60% above 32 micron sieve	
Specific Gravity	-:	1.2 – 1.6 (Depending upon the color & Finish).	
Theoretical Coverage	-:	8 – 13sq. meters/kg (as per Dry Film Thickness, Specific Gravity & Transfer efficiency)	
Curing Schedule	-:	200 °C / 10Min & 180 °C / 15Min (metal temp.)	
Flow Out	-:	Very Good	

Coating Properties:

Cupping Test	(ISO-1520)	-:	2mm Pass
Impact Test Direct	(ISO-6272)	-:	50 kg/cm
Dry Adhesion	(ISO-2409)	-:	GT – ‘0’
Pencil Hardness	(ASTM D 3363)-:		H-2H passes (No pencil marks)
Flexibility	(ISO-1519)	-:	10 mm passes (No film cracking)

NACL 5% Salt Spray (ASTM B117)

After 3000 hours	-:	No blistering & loss of adhesion; No undercutting
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Acetic Acid Salt Spray (ISO 9227)

After 1000 hours	-:	Maximum 15mm ² permeation for a scratch of 10cm
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Humidity Resistance (ISO 6270-2)

After 3000 hours -: No permeation exceeding 1mm on both sides of the scratch

Accelerated weathering (ISO 16474)

UVB-313 – 600hours
4hours @ 50°C UV -: No chalking with excellent color stability and gloss retention
4hours @ 40°C Condensation

UVA-340 – 3000hours
8hours @ 60°C UV -: No chalking with excellent color stability and gloss retention
4hours @ 45°C Condensation

Storage Conditions: Store Powder in a Dry cool condition. Do not exceed 33°C. Keep powder in packed condition if not in use to avoid contamination and moisture. Do not mix with any other Powder.

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The information in this Data Sheet is the outcome of NP research work and experience. The information contained herein is believed to be accurate but cannot be taken as a formal warranty.

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