

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 offers excellent gloss retention and resistance to color change properties.

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

Application Areas:

National Paints PS2000 Series is mainly recommended for exterior architectural applications. It is available in selected exterior durable colors. Typical application areas are aluminium industry, Air conditioner cabinets, Playground items, 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 equipment and recycled through the coating systems.

Pre-Treatment:

Substrates should be free of grease, oil, dirt, and fingerprints. Remove all contamination and apply surface treatments to get optimum adhesion and coating performance properties. The recommended type of pre-treatment for the most frequently used substrate is:

For Aluminum

-:

Chromate treatment

Product Warranty:

National Paints Factories Co. Ltd.

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

Powder Properties:

Chemical Type	-:	Polyester Super Durable – PS2000 Series			
Gloss @ 60° (ISO-2813)	-:	PS2008 (Glossy Finish)	-	85 (+/-) 10	(P-1526)
		PS2006 (Semi-glossy)	-	65 (+/-) 7	(P-1910)
		PS2003 (Matt Finish)	-	35 (+/-) 7	(P-1910)
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 / (10-15) Min & 180°C / (15-20) Min (metal temp.)			
Flow Out	-:	Very Good			

Coating Properties:

Cupping Test (ISO-1520)	-:	2mm Pass
Impact Test Direct (ISO-6272)	-:	25 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)

Corrosion Properties:

NACL 5% Salt Spray (ASTM B117)

After 3000 hours :- No blistering & loss of adhesion;
No undercutting

Acetic Acid Salt Spray (ISO 9227)

After 1000 hours :- Maximum 15mm² permeation
for a scratch of 10cm

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

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

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.

Shelf Life :- The powder has shelf life of one year from the date of manufacture

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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.