



**PLATINUM PHASE  
PURE POLYESTER SUPER DURABLE  
PS SERIES - POWDER COATING**

**Product Description:**

Platinum Phase PS Series is designed specifically for architectural applications where colour and gloss retention are critical. It is formulated with advanced polyester resin technology and high performance pigments to meet the outdoor performance requirements and designed to offer significantly higher gloss retention and resistance to colour change combined with maximum film integrity to ensure long term protection. PTPS Series compliance with AAMA 2604.

Platinum Phase PS Series are available in a variety of colors as per RAL Card, custom made Shades in Glossy, Satin and Matt finishes.

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**Application Areas:**

Platinum Phase PS Series is mainly recommended for Exterior architectural applications. It's available in variety of colors, finishes and gloss levels. Super Durable Series is suitable for Commercial Buildings, Extruded Architectural Aluminum including windows and door frames, Extruded Panel Work on commercial Buildings and used in the areas where high exterior performance is required.

**Powder Application:**

Platinum Phase PS Series can be applied by automatic corona Electrostatic Powder Spray – 40 to 100 KV. Over spray powder can be reclaimed using suitable equipment and recycled through the coating systems.



**Powder Coating Technical Data Sheet**  
**PLATINUM PHASE SDN. BHD (701635-A)**  
Consistent Quality & Innovative Creation

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**Pre-treatment:**

Substrate should be free of grease, oil, dirt, finger prints, and drawing compounds, remove all contamination and apply surface treatments to get optimum adhesion and coating performance properties. The use of a chemical conversion coating prior to the application of a powder coating is strongly recommended i.e. Iron or Zinc Phosphate. The recommended types of pre-treatments for the most frequently used substrates are:

<i>For Steel</i>	-:	<i>Iron or Zinc Phosphate</i>
<i>For Galvanized Steel</i>	-:	<i>Chromate treatment</i>
<i>For Aluminium</i>	-:	<i>Chromate treatment (DIN 50939)</i>

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**Powder Properties:**

Chemical Type	-:	<b>Pure Polyester – PS Series</b>
Gloss @ 60° (ASTM D-523)	-:	Glossy - 90 ± 10 % Reduce Gloss - 70 ± 10 % Semi-Glossy - 50 ± 10 % Matt - 30 ± 10 % Sand Texture - 16 ± 15 %
Particle Size	-:	65±5% above 32 micron sieve
Specific Gravity (ISO 8130)	-:	1.2 – 1.8 (Depending upon the colour & Finishing)
Theoretical Coverage	-:	8 – 13sq. meters/kg (as per Dry Film Thickness, Specific Gravity & Transfer efficiency)
Curing Schedule	-:	Min Temperature: 190°C x 15Min Max Temperature: 200°C x 10Min
Film Thickness	-:	60 - 90 micron



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**Mechanical Testing:**

• Cupping Test	(ISO-1520)	-:	5mm Pass (No surface cracking)
• Impact Test Direct	(ISO-6272)	-:	50 kg/cm (No surface cracking)
• Impact Test Indirect	(ISO-6272)	-:	50 kg/cm (No surface cracking)
• Adhesion	(ISO-2409)	-:	GT = 0 (2 mm square)
• Pencil Hardness	(ASTM D 3363)	-:	H Pass (No pencil marks)
• Conical Mandrel	(DIN53152)	-:	0-3 mm Pass (No surface cracking)

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**Corrosion Testing:**

NACL 5% Salt Spray (ASTM B117)  
(After Proper Pre-treatment)

After 3000 hours : No blistering;  
No undercutting

Accelerated Weathering (ISO 11507)

UVB-313 (After 300 hours) : No chalking;  
UVA-340 (After 1000 hours) Excellent gloss retention;  
Color stability.

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**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 our research work and experience. The information contained herein is believed to be accurate but cannot be taken as a formal warranty. According to the policy of PLATINUM PHASE SDN BHD, the results are subject to change without notice. It is recommended to check the product carefully prior to application.

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