



**PLATINUM PHASE
PURE POLYESTER ARCHITECTURAL
PA SERIES - POWDER COATING**

Product Description:

Platinum Phase PA Series is a thermosetting powder coating based on specially selected saturated polyester resins and hardeners to give a Pure Polyester TGIC powder coatings. It is developed to satisfy the requirements of Exterior durability with attractive decorative finishes combined with Optimum protective properties. Platinum Phase PA Series offer excellent gloss retention and resistance to color change properties.

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

Application Areas:

Platinum Phase PA Series is recommended for Exterior architectural applications. It's available in variety of colors, finishes and gloss levels. Typical application areas are Aluminum Industry, Air conditioner cabinets, Farm equipments, Garden Furniture, Playground item, Automobile Accessories, Architectural items, Light Fixtures etc.

Powder Application:

Platinum Phase PA Series can be applied by automatic 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, 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>-:</i>	<i>Iron or Zinc Phosphate</i>
<i>For Galvanized Steel</i>	<i>-:</i>	<i>Chromate treatment</i>
<i>For Aluminium</i>	<i>-:</i>	<i>Chromate treatment (DIN 50939)</i>



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

Powder Properties:

Chemical Type	-:	Pure Polyester – PA Series		
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		

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 1500 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.

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.

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.