



**PLATINUM PHASE  
PURE EPOXY  
PE SERIES - POWDER COATING**

**Product Description:**

Platinum Phase PE Series is a thermosetting powder coating based on specially selected Epoxy resins and cross linking agents providing excellent decorative and functional properties. Platinum Phase PE Series offer excellent chemical and mechanical performance with exceptional flow, finish and color stability.

Platinum Phase PE Series Powders are available in a variety of colors as per RAL Card, custom made shades in Glossy, Satin and Matt finishes. Other patterns like Grit Finish, Texture, Hammer Tone & Metallic Finishes are also available.

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**Application Areas:**

Platinum Phase PE series is recommended for interior application for corrosion protection purposes and for resistance against chemicals and solvents. It's available in variety of colors, finishes and gloss levels. The main application areas for PE series are Domestic Appliances, Indoor Metal Furniture and Fixtures, valves and fittings, pipelines and other miscellaneous items where high chemical resistance and anti-corrosion property is required. The use of Platinum Phase PE series as primer offer excellent adhesion to both substrate and top coat, attributing to enhanced anti-corrosion property.

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**Powder Application:**

Platinum Phase PE Series Powders 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.

Platinum Phase Metallic Powders can be applied by Electrostatic corona spray equipment. However different electrostatic gun types may give different charging characteristics and hence affect the final appearance. Also due to the nature of the product care should be taken, to ensure that the used reclaimed powder has good color and gloss uniformity as well as consistency of metallic effect when compared to original virgin material.



**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 Epoxy – PE Series</b>
Gloss @ 60° (ASTM D-523)	-:	Glossy - 90 ± 10 %
	-:	Reduce Gloss - 70 ± 10 %
	-:	Semi- Glossy - 50 ± 10 %
	-:	Matt - 30 ± 10 %
	-:	Extra Matt - ≤ 20 %
	-:	Sand Texture - 16 ± 15 %
Particle Size	-:	65 ± 5% above 32 micron sieve
Specific Gravity (ISO 8130)	-:	1.2 – 1.8 (Depending upon the color & Finish)
Theoretical Coverage	-:	8 – 13sq. meters/kg (as per Dry Film Thickness, Specific Gravity & Transfer efficiency)
Typical Curing Schedule	-:	180°C x 10 Min (Lower curing schedule available)
Film Thickness	-:	For Smooth Finish :- 60 - 90 micron
	-:	For Texture Finish :- 90 – 130 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 Direct	(ISO 6272)	-:	50 kg/cm (No surface cracking)
• Adhesion	(ISO 2409)	-:	GT = 0
• 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)

Min 1000 hours : No blistering;  
No undercutting

Humidity (ASTM D2247)

Min 500 hours : No blistering;  
No undercutting

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**Storage Conditions:** Store Powder in a Dry cool condition below 25°C temperature for 6 month to 1 year. Keep powder in packed condition if not in use to avoid contamination and moisture.

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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.