



PURE EPOXY EP SERIES - POWDER COATING

Product Description:

National Paints EP Series is a thermosetting powder coating based on Epoxy resins and cross linking agents providing excellent decorative and functional properties. National Paints EP Series offer excellent chemical and mechanical performance with exceptional flow.

NP EP Series Powders are available in a variety of colors as per RAL Card, custom made shades in Glossy, Semi-gloss, and Matt finishes. Other patterns like Grit Finish, Texture, and Hammer Tone & Metallic Finishes are also available.

Application Areas:

National Paints EP series is recommended for interior application for corrosion protection purposes and for resistance against chemicals and solvents. The main application areas for EP series are Domestic Appliances, Indoor Metal Furniture and Fixtures and other miscellaneous items where high chemical resistance is required.

Powder Application:

National Paints EP 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.

Powder Properties:

Chemical Type	-:	Pure Epoxy – EP Series															
Gloss @ 60° (ISO-2813)	-:	<table border="0"> <tr> <td>EPFG High Gloss</td> <td>-</td> <td>90 (+/-) 5</td> </tr> <tr> <td>EPSP Semi-Gloss</td> <td>-</td> <td>77 (+/-) 7</td> </tr> <tr> <td>EPSM Matt</td> <td>-</td> <td>30 (+/-) 5</td> </tr> <tr> <td>EPXM Extra Matt</td> <td>-</td> <td>5 (+/-) 5</td> </tr> <tr> <td>EPFT Fine Texture</td> <td>-</td> <td>5 (+/-) 5</td> </tr> </table>	EPFG High Gloss	-	90 (+/-) 5	EPSP Semi-Gloss	-	77 (+/-) 7	EPSM Matt	-	30 (+/-) 5	EPXM Extra Matt	-	5 (+/-) 5	EPFT Fine Texture	-	5 (+/-) 5
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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 / 8Min & 180 °C / 10Min (metal temp.)															
Flow Out	-:	Very Good															

Coating Properties:

Impact Test Direct (ISO-6272)	-:	50 kg/cm (No surface cracking)
Impact Test Indirect (ISO-6272)	-:	50 kg/cm (No surface cracking)
Flexibility (ASTM D 552)	-:	180deg (No surface cracking)
Adhesion (ISO-2409)	-:	GT – ‘0’
Pencil Hardness (ASTM D 3363)	-:	H-2H passes (No pencil marks)

Corrosion Testing:

NACL 5% Salt Spray (ASTM B117)

After 500 hours	-:	No blistering & loss of adhesion; No undercutting
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Humidity Resistance (ISO 6270-2)

After 500 hours	-:	No permeation exceeding 1mm on both sides of the scratch
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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 NP research work and experience. The information contained herein is believed to be accurate but cannot be taken as a formal warranty.