



EPOXY POLYESTER MX SERIES - POWDER COATING

Product Description:

National Paints MX Series is a thermosetting powder coating based on Epoxy and Polyester Resins to produce a Hybrid powder coating system. This special polymeric combination provides decorative and protective coating with excellent over bake resistance. NP MX Series offer excellent chemical and mechanical performance with exceptional flow, finish and color stability.

NP MX 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 MX series is recommended for interior application only. The main application areas for MX series are Domestic Appliances, Indoor Metal Furniture and Fixtures, Lighting frames and other miscellaneous items having indoor usage.

Powder Application:

National Paints MX 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.

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Powder Properties:

Chemical Type	-:	Epoxy Polyester – MX Series	
Gloss @ 60° (ISO-2813)	-:	MXFG High Gloss	- 90 (+/-) 5
	-:	MXSG Semi-Gloss	- 77 (+/-) 7
	-:	MXSM Matt	- 30 (+/-) 5
	-:	MXCT Course Texture	- 20 (+/-) 5
	-:	MXFT Fine Texture	- 5 (+/-) 5
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 / 10Min & 180 °C / 15Min (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

Humidity Resistance (ISO 6270-2)

After 500 hours -:

- No permeation exceeding 1mm on both sides of the scratch

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.

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