



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 a decorative and protective coating with excellent over-bake resistance. This Series offers excellent chemical and mechanical performance with exceptional flow, finish and color stability.

National Paints 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 corona Electrostatic Powder Spray – 40 to 100 KV. Over-spray powder can be reclaimed using suitable equipment and recycled through the coating systems.

Pre-Treatment:

Substrate should be free of grease, oil, dirt, and fingerprints. Remove all contamination and apply surface treatments to get optimum adhesion and coating performance properties. The recommended types of pre-treatments for the most frequently used substrates are:

| | | |
|-----------------------------|----|---------------------------------------|
| <i>For Steel</i> | -: | <i>Zinc Phosphate</i> |
| <i>For Galvanized Steel</i> | -: | <i>Chromate treatment</i> |
| <i>For Aluminum</i> | -: | <i>Chromate treatment (DIN 50939)</i> |

National Paints Factories Co. Ltd.

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P.O. Box: 5822 - Sharjah - U.A.E.

www.nationalpaints.com

شركة مصانع الأصباغ الوطنية المحدودة

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Powder Properties:

| | | | | |
|------------------------|----|-----------------------------------------------------------------------------------------|---|------------|
| Chemical Type | -: | Epoxy Polyester MX- Series | | |
| Gloss @ 60° (ISO-2813) | -: | MXFG (Glossy) | - | 90 (+/-) 5 |
| | | MXSG (Semi-glossy) | - | 77 (+/-) 7 |
| | | MXSM (Matt Finish) | - | 30 (+/-) 5 |
| | | MXDM (Dead Matt) | - | 5 (+/-) 3 |
| | | MXFT (Sandy Finish) | - | 12(+/-) 5 |
| | | MXCT (Dead Matt) | - | 20 (+/-) 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/10-15Min & 180 °C/15-20Min (metal temp.) | | |

Coating Properties:

| | | |
|---------------------------------|----|--------------------------------|
| Cupping Test (ISO-1520) | -: | 5mm Pass (No surface cracking) |
| Impact Test Direct (ISO-6272) | -: | 40 kg/cm (No surface cracking) |
| Impact Test Indirect (ISO-6272) | -: | 40 kg/cm (No surface cracking) |
| Flexibility (ASTM D 552) | -: | 180 deg (No surface cracking) |
| Dry Adhesion (ISO-2409) | -: | GT – '0' |
| Pencil Hardness (ASTM D 3363) | -: | H-2H passes (No pencil marks) |
| Flexibility (ISO-1519) | -: | 5 mm passes (No film cracking) |

Corrosion Properties:

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Acetic Acid Salt Spray (ISO 9227)

After 500 hours -: Maximum 15mm² permeation
for a scratch of 10cm

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.

Shelf Life : The powder has shelf life of one year from the date of manufacture

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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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