



ZINCOPRIM

Zinc Rich Epoxy Primer - Powder Coating

Product Description:

National Paints Zincoprim is a thermosetting powder coating based on specially selected Epoxy resins and cross-linking agents, providing excellent decorative and functional properties. Zincoprim is epoxy-based zinc-rich powder coating designed to be used as a primer coat on phosphate or blast-cleaned steel objects and structures.

National Paints Zincoprim provides excellent resistance to corrosion, outstanding mechanical properties and inter-coat adhesion, and very good degassing properties along with excellent edge coverage and flow.

Suitable top coat products are NP MX Series for interior applications and NP PA1000 & PS2000 Series for exterior durable applications.

Application Areas:

National Paints Zincoprim, the typical areas of application are steel building structures, agricultural machinery, steel fences, outdoor public area furniture, gas cylinders, steel items in coastal areas, and coating for marine environments.

Powder Application:

National Paints Zincoprim 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:

The quality of the end coating system mainly depends upon the type and the quality of the pre-treatment and the top coat. As per corrosion resistance requirements, different types of pre-treatments are recommended.

- | | | |
|-------------------|---|---|
| Medium resistance | - | Iron phosphate or blast cleaning SA2.5 profiles 40-80u |
| High Resistance | - | Blast cleaning SA2.5 profiles 40-80u with Zinc phosphate. |

National Paints Factories Co. Ltd.

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

www.nationalpaints.com

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Powder Properties:

| | | |
|--------------------------|----|--|
| Chemical Type | -: | Pure Epoxy |
| Color | -: | Grey |
| Gloss @ 60° (ASTM D-523) | -: | Gloss Level - 50 (+/-) 15 |
| Particle Size | -: | 65% above 32 micron sieve |
| Specific Gravity | -: | 3.0 +- 0.1 |
| Curing Schedule | -: | 200 °C / 6Min & 180 °C / 10Min (metal temp.) |

It is advised to partially cure Zincoprim before applying top coat. Normally 3-5min @180C and 2-3min @ 200C metal temp. The top coat must be applied within the same shift after application of primer to ensure optimum inter-coat adhesion.

Mechanical 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) | -: | 180deg (No surface cracking) |
| Dry Adhesion (ISO 2409) | -: | GT – '0' |
| Flexibility (ISO-1519) | -: | 5 mm passes (No film cracking) |

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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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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