NIPPON PAINT MICACEOUS IRON OXIDE

Updated July'25

Nippon Paint Micaceous Iron Oxide is a durable alkyd-based coating pigmented with micaceous iron oxide to provide outstanding barrier protection and long-term durability on steel structures. The product can be overcoated with alkyd-based finishes for enhanced appearance or left uncoated as a robust, self-protective layer with a natural metallic finish.

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent based	Interior & Exterior	Low Gloss	Wood and Metal	1 Litres, 5 Litres, 15 Litres, 20 Litres

Composition

Pigment	: Micaceous iron oxide, Aluminium and Extender
Binder	: Alkyd
Thinner	: General Purpose Thinner

Technical Data

Drying Time	: Touch Dry	: 1 hour
	: Hard Dry	: 16 hours
	*Drying time above is based on temperature 28 – 32 °C, humidity 70 – 80% and 5% dilution with **Nippon Paint General Purpose Thinner**.*	
Recoating Interval	: Minimum 16 hours	
	*Recoating time above is based on temperature 28 – 32 °C, humidity 70 – 80% and 5% dilution with **Nippon Paint General Purpose Thinner**.*	

**Important Note:*
Drying Time and recoating time are strongly depending on environment ventilation, paint thickness, environment temperature, environment humidity, number of coats applied, thinner used to dilute product and recoat materials. So drying time and recoating time provided is for guide only.

Dry Film Thickness	: 50 - 60 μm per coat (dry film thickness)
No. of Coats	: 1 - 2 coats
Theoretical Coverage	: 10.2 m^2 per litre (for dry film thickness of 50μm) 8.5 m^2 per litre (for dry film thickness of 60μm)
Practical Coverage (20% Loss Factor)	: 8.2 m^2 per litre (for dry film thickness of 50μm) 6.8 m^2 per litre (for dry film thickness of 60μm)
Volume Solid	: ~ 51% by volume
Shelf Life	: Up to 24 months in tight sealed container

Application Method

Brush/ Roller	: If necessary, add up to 5% Nippon General Purpose thinner by volume.
Compressed Air Spray	: If necessary, add up to 15% Nippon General Purpose thinner by volume.
Airless Spray	
Tip Size	: 140 – 170 kg/cm^2
Tip Pressure	: 0.017" – 0.023"
Spray Angle	: 60° - 70°
Dilution	: Up to 5% Nippon General Purpose thinner by volume

Recommended Coating System

Sealer / Primer	: Nippon Paint Zinc Phosphate Primer	: 1 coat
Top Coat	: **Nippon Paint Micaceous Iron Oxide**	: 2 coats

Surface Preparation

The surface must be free from millscale, rust, grease, oil and other contaminants; it must be dry at the time of application.

Cleaning

Cleaning Solvent : Nippon Paint General Purpose Thinner

All equipment should be cleaned IMMEDIATELY with thinner after use. For thinning, substitute thinners other than those approved or supplied by Nippon Paint may adversely affect the product performance and void product warranty whether expressed or implied

Tests

1. **ASTM D3359** on Adhesion of Paint by Tape Test
2. **ISO 4624** on Adhesion of Paint by Pull-Off Test
3. **ISO 6272-1** on Impact Resistance by Falling Weight
4. **ISO 3251** on Non-Volatile Matter
5. **ISO 9227** on Salt Spray Test

Safety Precautions

- Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3 ℃ above the dew point.
- Do not apply at temperature below 7°C. If not, drying and overcoating times will be considerably extended.
- Keep container tightly closed and keep out of reach children or away from food and drink.
- Ensure good ventilation during application and drying.
- During application of paint, naked flames, welding operation, and smoking should not be allowed.
- When applying paint, it is advisable to wear eye protection.
- In case of contact with eye, rinse with plenty of water immediately and seek medical advice.
- Remove splashes from skin by using soap or water.
- Paint must always be stored in a cool place.
- When transporting paint, care must be taken. Always keep container in a secure upright position.
- Dispose off any paint waste in accordance with the appropriate Environment Quality Regulations.

Note

* Theoretical Coverage is based on a mathematical formula

$$\left[\frac{Volume\ Solid\ \%\ x\ 10}{Dry\ Film\ Thickness}\right] = m^2/lit/coat$$

Note: This theoretical coverage rate has been calculated from the volume solids of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry or the article being coated, the skill of applicator etc. when estimating quantities required for a particular job.

The above information is given to the best of our knowledge based on laboratory tests and practical experience.
However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself.
We reserve the right to alter the given without prior notice.

Disclaimer

The information contained in this document is provided to the best of Nippon Paint's knowledge, based on laboratory testing and practical experience. As our products are considered semi-finished goods, their performance may be influenced by conditions beyond Nippon Paint's control. As such, we can only guarantee the quality of the product itself. Minor variations may be introduced to comply with local regulations. Nippon Paint reserves the right to modify the information in this document without prior notice.

Users are encouraged to consult Nippon Paint for specific guidance on the suitability of this product for their intended use and application method.

In case of discrepancies between language versions, the English (United Kingdom) version shall prevail.