

NIPPON PAINT 8048
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NIPPON PAINT 8048 is a surface tolerant/mastic two-pack epoxy polyamide coating, specifically designed for use on steel surfaces that cannot be abrasive blast cleaned. It provides a high build impervious barrier coating that gives excellent adhesion and surface wetting properties on manually prepared, rusty steelwork. This barrier coating also provides excellent corrosion resistance. **NIPPON PAINT 8048** can be used either as a high build primer or a self-priming high build finish under non-immersion service.

Product Features:

- Excellent corrosion resistance
- Excellent resistance penetration by moisture and corrosive ions
- High tolerance
- Can be used as primer, intermediate, finish
- Recommended to use Indian Red as primer

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent based	Interior	Semi-Gloss As to colour card	Iron and Steel	5 L (2.5L Base and 2.5L Hardener) 20 L (10L Base and 10L Hardener)

Composition

Pigment	: Extender, colour pigment/ iron oxide/aluminium
Binder	: Epoxy
Thinner	: Combination of aromatic, ketone and alcohol

Technical Data

Drying Time (25-30°C)	: Touch Dry : 3-4 hour : Hard Dry : 16 hours
Overcoating Time (25-30°C)	: Minimum 16 hours
Curing Time (25-30°C)	: 6-7 days (Dependent on temperature and humidity).
Typical Thickness	: 100 ~ 250 microns for dry film 110 ~ 280 microns for wet film
No. of Coats	: 1 - 2coat
Theoretical Coverage	: 9.0 m ² /litre (for dry film thickness of 100 microns) 3.6 m ² /litre (for dry film thickness of 250 microns)
Practical Coverage (40% Loss Factor, as a guideline)	: 5.4 m ² /litre (for dry film thickness of 100 microns) 2.2 m ² /litre (for dry film thickness of 250 microns):
Volume Solid	: 90 ± 2% by volume
Specific Gravity	: 1.20 – 1.40 (for mixture of Base and Hardener)
Mixing Ratio	: 1 part by volume of Base to 1 part by volume of Hardener. (Stir the content of the Base component, continue stirring and gradually add the total contents of the Hardener component, continue stirring until a homogeneous mix is obtained.)
Pot Life (25-30C)	
Shelf Life	: 3 - 4 hours after mixing : Up to 24 months in tight sealed container (Subjected to reinspection after exceeding shelf-life period)

Application Method

Brush, roller, compressed air spray and airless spray. Preferably use airless spray if a thicker coat is required in one application. Brush, roller, compressed air spray generally lead to lower film thickness, so more applications may be required to obtain the recommended thickness per coat. For brush and roller recommended for small areas and touch-up only. Good quality brushes and mohair/ short nap rollers should be used with full strokes. Avoid rebrushing. Thin up to 10% - 15% by volume of SA-65 Thinner for proper flow-out. Additional coats may be required to achieve minimum specified film thickness. When airless spray is being used, excessive high tip spraying pressure should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.

Thinner	: SA-65 Thinner
Brush/ Roller	: If necessary, add up to 5% thinner by volume.
Compressed Air Spray	: If necessary, add about 10% to 15% thinner by volume.
Airless Spray	: Delivery pressure : 140 – 170 kg/cm ²
	: Tip size : 0.015" – 0.017"
	: Spray angle : 60° - 70°
	: Dilution : Up to 5% thinner by volume

Recommended Coating System

Iron and Steel

Primer	: Nippon Paint 8048	: 1 Coat
Intermediate	: Nippon Paint 8048	: 1 Coat
Top Coat	: Nippon Paint PU Recoatable Finish/ Nippon Paint EA4 Finish (EP)	: 1 Coat

Surface Preparation

For optimum performance, abrasive blasting in accordance to **SSPC- SP10 or Sa 2½ ISO 8501-1:2007** is desirable. Average of surface profile 50 - 100 microns is acceptable. The surface to be coated must be clean and dry. Zinc salts can be removed by fresh water wash and scrubbing. Dry brushing should be sufficient to remove dirt. Where abrasive blasting is not possible, mechanical cleaning to **St 3 ISO 8501- 1:2007** standard is acceptable. For galvanised surfaces, thorough solvent degreasing to **SSPC-SP1** is necessary.

Cleaning

Cleaning Solvent : SA-65 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. **ISO 15184** on Pencil Hardness
2. **ASTM D3359** on Adhesion of Paint by Tape Test
3. **ISO 4624** on Adhesion of Paint by Pull-Off Test
4. **ISO 6272-1** on Impact Resistance by Falling Weight
5. **ASTM D5402-19** on Solvent Resistance
6. **ISO 2812-4** on Chemical Resistance
7. **ISO 9227** on Salt Spray Test

Environmental Conditions During Application

- Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
- Do not apply at temperature below 7°C. If not, drying and overcoating times will be considerably extended.
- During application of the paint, naked flame, welding operations and smoking should not be allowed and adequate ventilation should be provided.

Safety Precautions

- In the wet state, this product is highly inflammable. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- Keep away from sources of ignition. No smoking.
- Keep container tightly closed and keep out of reach from children.
- Do not breathe vapour/spray. Applying paint to large surface areas under closed environment should use air supplied breathing equipment. For small areas or short periods, a suitable cartridge mask should be worn.
 Inhalation : Remove to fresh air, loosen collar and keep patient rested.
 Ingestion : In case of accidental ingestion. DO NOT INDUCE VOMITING. Seek immediate medical attention.
- Avoid contact with skin and eyes. Wear suitable protective coating such as overalls, goggles, dust masks and gloves. Use a barrier cream.
 Eyes : In the event of accidental splashes, flush eyes with water immediately and obtain medical advice.
 Skin : Wash skin thoroughly with soap and water or approved industrial cleaner. DO NOT USE solvent or thinners.
- Care must be taken when transporting paint. Keep container in a secure upright position.
- Do not empty into drains or watercourses. Dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations.

Note : A Chemical Safety Data Sheet (CSDS) is available upon request.

Note

* Theoretical Coverage is based on a mathematical formula and does not consider Loss Factor.

$$\left[\frac{\text{Volume Solid \%} \times 10}{\text{Dry Film Thickness } (\mu)} \right] = \text{m}^2/\text{lit}/\text{coat}$$

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 of the article being coated, the skill of applicator, method of application 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.