

NIPPON PAINT PROTECTIVE ACRYLIC RED OXIDE PRIMER
Updated Aug'22

NIPPON PAINT PROTECTIVE ACRYLIC RED OXIDE PRIMER is an acrylic based primer for use on steel, galvanised steel and aluminium window frames. It is characterised by its fast-drying property, outstanding chemical resistance, toughness, flexibility and recoating property.

Product Features:

- Anti-corrosive properties
- Fast drying properties

Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size
Solvent based	Interior & Exterior	Low Gloss	Iron and Steel	5 Litres and 20 Litres

Composition

Pigment	: Iron Oxide and Extenders
Binder	: Acrylic
Thinner	: Aromatic

Technical Data

Drying Time (25-30°C)	: Touch Dry	: Approximately 5 minutes (Dependent on temperature and humidity)
	: Hard Dry	: 20 minutes (Dependent on temperature and humidity)
Overcoating Time (25-30°C)	: Minimum 4 hours (Dependent on temperature and humidity)	
Typical Thickness	: 40 - 50 µm dry film per coat 100 ~ 125 microns for wet film	
No. of Coats	: 1-2 coats	
Theoretical Coverage	: 10.0 m ² /litre (for dry film thickness of 40 microns) 8.0 m ² /litre (for dry film thickness of 50 microns)	
Practical Coverage (40% Loss Factor, as a guideline)	: 6.0m ² /litre (for dry film thickness of 40 microns) 4.8 m ² /litre (for dry film thickness of 50 microns)	
Volume Solid	: 40 ± 2% by volume	
Specific Gravity	: 1.16 - 1.26	
Shelf Life	: Up to 24 months in tight sealed container (Subjected to reinspection after exceeding shelf-life period)	

Application Method

Thinner	: OP-1 Thinner	
Brush/ Roller	: If necessary, add about 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 Protective Acrylic Red Oxide primer	: 1 Coat
Intermediate	: Nippon Paint Protective Acrylic Finish	: 1 Coat
Top Coat	: Nippon Paint Protective Acrylic Finish	: 1 Coat

Surface Preparation

The surface must be dry and free from dirt, grease and other contaminants. Ferrous substrates shall be power tool cleaned to minimum **SSPC-SP3 or St 3 ISO 8501- 1:2007**, free from mill scale. Clean off and dry prior to application of Nippon Paint Protective Acrylic Red Oxide Primer.

Cleaning

Cleaning Solvent : OP-1 Thinner. Clean up equipment with thinner immediately after use.

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 good ventilation is necessary.

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.