

NIPPON PAINT ETCHING PRIMER 120

NIPPON PAINT ETCHING PRIMER 120 is a two-pack polyvinyl butyral based, acid-catalysed etching primer. It has excellent adhesion to blast cleaned steel, galvanized steel and light alloys and thus provides a suitable base for most coatings to adhere satisfactorily.

Product Features:

- Good adhesion

| Paint Type | Product Type | Finishing | Recommended Substrate | Pack Size |
|---------------|---------------------|-----------|--|-------------------------------|
| Solvent based | Interior & Exterior | Matt | Blast cleaned steel, galvanized steel and light alloys | 5 L (4L Base and 1L Hardener) |

Composition

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|---------|-----------------------------------|
| Pigment | : Anti rust and Extender |
| Binder | : Polyvinyl butyral based resin |
| Thinner | : Mixture of hydrocarbon solvents |

Technical Data

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| Drying Time (25–30°C) | : Touch Dry : 5 minutes (Dependent on temperature and humidity) : Hard Dry : 1 hours (Dependent on temperature and humidity) |
| Overcoating Time (25–30°C) | : Minimum 4 hours (Dependent on temperature and humidity) |
| Dry Film Thickness | : 12 µm dry film per coat 60 µm wet film per coat |
| No. of Coats | : 1 coat |
| Theoretical Coverage | : 16.7 m ² /litre (for dry film thickness of 12 microns) |
| Practical Coverage | : 10.0 m ² /litre (for dry film thickness of 12 microns) |
| Volume Solid | : 20 ± 2% by volume |
| Specific Gravity | : 0.85 – 1.00 (for mixture of Base and Hardener) |
| Mixing Ratio | : 4 parts 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 (25–30°C) | : 18 – 24 hours after mixing |
| Shelf Life | : Up to 24 months in tight sealed container |

Application Method

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| Thinner | : Vinilex 510 Thinner |
| Brush / Roller | : Dilute the paint with not more than 5% of water. Preferable not dilute for best performance. |
| 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 Etching Primer 120 | : 1 Coat |
| Intermediate | : Nippon Paint Protective Finish FD | : 1 Coat |
| Top Coat | : Nippon Paint Protective Finish FD | : 1 Coat |
| Primer | : Nippon Paint Etching Primer 120 | : 1 Coat |
| Intermediate | : Nippon Paint Micaceous Iron Oxide | : 1 Coat |
| Top Coat | : Nippon Paint Protective Finish FD | : 1 Coat |
| Primer | : Nippon Paint Etching Primer 120 | : 1 Coat |
| Intermediate | : Nippon Paint Micaceous Iron Oxide | : 1 Coat |
| Top Coat | : Nippon Paint Micaceous Iron Oxide | : 1 Coat |
| Primer | : Nippon Paint Etching Primer 120 | : 1 Coat |
| Intermediate | : Nippon Paint 8048 | : 1 Coat |
| Top Coat | : Nippon Paint Polyurethane Recoatable Finish | : 1 Coat |
| Primer | : Nippon Paint Etching Primer 120 | : 1 Coat |
| Top Coat | : Nippon Paint Polyurethane Recoatable Finish | : 1-2 Coat |

Surface Preparation

For galvanised surfaces and light alloys, thorough solvent degreasing to SSPC-SP1 is necessary. For steel, abrasive blast Sa 2½ ISO 8501-1:2007 is required. All surfaces must be dry and free from dirt, grease, oil and other contaminants before application of the paint.

Cleaning

Cleaning Solvent : Vinilex 510 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

- 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 and does not consider Loss Factor.

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

and does not consider LOSS FACTORS. Variables like porosity of substrate, application method, dilution ratio, dry film thickness, opacity and so on will affect the loss factor and can vary from 30% - 50% or even more.