NIPPON PAINT 1K ETCHING PRIMER

Updated Jan'25

NIPPON PAINT 1K ETCHING PRIMER is a single-pack epoxy modified polyvinyl butyral, acid-catalysed etching primer. It is a fast drying primer that has excellent adhesion to blast cleaned steel, galvanised steel and light alloys and thus provides a suitable base for single and two pack products to overcoat satisfactorily. Containing anti-rust pigments, it provides short term corrosion inhibition properties in mild environments. Under highly corrosive environments, it performs better as a tie coat with a barrier primer and topcoat to have superior protection.

Product Features:

- Single-pack and quick dry
- Excellent substrate adhesion

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Paint Type	Product Type	Finishing	Recommended Substrate	Pack Size		
Solvent based	Interior & Exterior	Matt	Blast cleaned steel, galvanized	5L		
		Dark Green	steel and light alloys			
Composition						
Pigment		: Anti rust and extender pigment				
Binder		: Polyvinyl butyral based resin				
Thinner	: Mixture of h	: Mixture of hydrocarbon solvents				
Technical Data						
Drying Time (25-30°C) Overcoating Time (25- Typical Thickness	: Hard Dry -30°C) : Minimum 4 : 10 - 15 μm	: Approx hours (Temperat dry film per coat	imately 5 minutes (Temperature & h imately 45 minutes (Temperature & l ure & humidity dependent)			
No. of Coats	67 - 100 μm : 1 coat	wet film per coa	t			
Theoretical Coverage Practical Coverage (40% Loss Factor, as a guideline)	heoretical Coverage: 10.0 m²/litre (for dry film thickness of 15 microns)ractical Coverage: 6.0 m²/litre (for dry film thickness of 15 microns)40% Loss Factor, as a					
Volume Solid	: 15 ± 2% by	: 15 ± 2% by volume				
Specific Gravity	: 0.95 - 1.05					
Shelf Life	-	: Up to 12 months in tight sealed container (Subjected to reinspection after exceeding shelf-life period)				
Application Meth	od					
Thinner	: Nippon Pair	t 2K THINNER 01				
Brush/ Roller	: If necessary, add about 5% thinner by volume.					
Compressed Air Spray						
Airless Spray	: Delivery pre		170 kg/cm ²			
	: Tip size		- 0.017"			
	: Spray angle					
	: Dilution	: Up to !	5% thinner by volume			
Recommended Co	ating System					
Iron and Steel						
Primer	: Nippon Paint 1K Etching Primer			: 1 Coat		
Top Coat	: Nippon Pair	: Nippon Paint Protective Finish FD : 2 Coat				
Primer	: Nippon Pair	: Nippon Paint 1K Etching Primer				
Top Coat		: Nippon Paint Micaceous Iron Oxide : 2 Coat				
Primer	: Nippon Pair	it 1K Etching Prim	ner	: 1 coat		



Intermediate	: Nippon Paint Micaceous Iron Oxide	: 1 coat
Top Coat	: Nippon Paint Protective Finish FD	: 1 coat
Primer	: Nippon Paint 1K Etching Primer	: 1 coat
Intermediate	: Nippon Paint 8048	: 1 coat
Top Coat	: Nippon Paint PU Recoatable Finish	: 1 coat
Primer	: Nippon Paint 1K Etching Primer	: 1 coat
Topcoat	: Nippon Paint PU Recoatable Finish	: 2 coats
Primer	: Nippon Paint 1K Etching Primer	: 1 coat
Topcoat	: Nippon Paint Protective AR Finish	: 2 coats
Primer	: Nippon Paint 1K Etching Primer	: 1 coat
Topcoat	: Nippon Paint Protective Acrylic Finish	: 2 coats
Primer	: Nippon Paint 1K Etching Primer	: 1 coat
Intermediate	: Nippon Paint EA-9 Finish HB	: 1 coat
Topcoat	: Nippon Paint PU Recoatable Finish	: 1 coat

Surface Preparation

For galvanised surfaces and light alloys, thorough solvent degreasing to **SSPC-SP1** is necessary. For steel, abrasive blast to **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 following paint.

Cleaning

Cleaning Solvent

: Nippon Paint 2K THINNER 01. 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 a wet state, this product is highly flammable. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- 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 of 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.

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

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.