

NIPPON PAINT GALVAPRIMER
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NIPPON PAINT GALVAPRIMER is a two-pack, polyvinyl butyral based etching primer which designed to provide excellent adhesion properties. It provides short term corrosion inhibition properties in mild environments. Under corrosive environments, it performs better as a tie coat with a barrier primer to give better protection. It is also highly compatible with a variety of coating systems and is recommended for use on galvanised iron, blast cleaned steel and light alloys as a primed base.

Product Features:

- Excellent substrate adhesion
- Mild corrosion resistance

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

Composition

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

Technical Data

Drying Time (25-30°C)	: Touch Dry : Approximately 5 minutes (Temperature & humidity dependent) : Hard Dry : 1 hour (Temperature & humidity dependent)
Overcoating Time (25-30°C)	: Minimum 4 hours (Temperature & humidity dependent)
Typical 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 (40% Loss Factor, as a guideline)	: 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)	
Shelf Life	: 18 - 24 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, and compressed air spray generally lead to lower film thickness, so more applications may be required to obtain the recommended thickness per coat.

In order to ensure maximum adhesion between coats, it is important to observe that, before recoating, the applied coat is dry and free from any form of contamination. In case it rains or raining is expected, it is advisable not to do any painting. Painting under relative humidity above 85% will adversely affect the subsequent performance of the coating. Condensation occurs during or soon after application and premature early exposure to rain or ponding water could result in color and gloss change.

The optimum resistance of the coating is only attained after completion of the curing of the paint. Under average atmospheric conditions, it takes about 6 ~ 7 days. Exposure of the applied coating to severe abrasion or chemical and water spillage should therefore be avoided before completion of the curing period, the first two or three days being particularly critical.

Thinner	: Nippon Paint Vinilex 510 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 : 0.013" – 0.017"
	: Spray angle : 60° - 70°
	: Dilution : Up to 5% thinner by volume

Recommended Coating System

Iron and Galvanised Steel

Primer	: Nippon Paint Galvaprimer	: 1 Coat
Intermediate	: Nippon Paint Protective Finish FD	: 1 Coat
Top Coat	: Nippon Paint Protective Finish FD	: 1 Coat
Primer	: Nippon Paint Galvaprimer	: 1 Coat
Intermediate	: Nippon Paint Micaceous Iron Oxide	: 1 Coat
Top Coat	: Nippon Paint Protective Finish FD	: 1 Coat
Primer	: Nippon Paint Galvaprimer	: 1 Coat
Intermediate	: Nippon Paint Micaceous Iron Oxide	: 1 Coat
Top Coat	: Nippon Paint Micaceous Iron Oxide	: 1 Coat
Primer	: Nippon Paint Galvaprimer	: 1 Coat
Intermediate	: Nippon Paint 8048	: 1 Coat
Top Coat	: Nippon Paint PU Recoatable Finish	: 1 Coat
Primer	: Nippon Paint Galvaprimer	: 1 Coat
Top Coat	: Nippon Paint PU Recoatable Finish	: 1 - 2 Coats

Surface Preparation

For galvanised surfaces and light alloys, thorough solvent degreasing to **SSPC-SP1** is necessary. For steel, abrasive blast at **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 : Nippon Paint Vinilex 510 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 3251** on Non-Volatile Matter
4. **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 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 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.

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

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.