



## NIPPON 9000 GLOSS ENAMEL

### **PRODUCT DESCRIPTION**

NIPPON 9000 is a single component solvent-borne Oil-Modified Alkyd paint with good durability, higher gloss and better opacity properties. It is used as a finishing coat over primed wood and metal surfaces both internal and external.

### **PHYSICAL CHARACTERISTICS**

Finish	:	High Gloss, Semi-Gloss and Low Gloss
Colour	:	Full range of decorative colours as per colour card
Specific Gravity	:	1.05 ± 0.05kg/litre <sup>(1)</sup>
Solid Content	:	45 ± 2% by volume <sup>(1)</sup>

Remark: <sup>(1)</sup> Based-on white colour

### **PERFORMANCE CHARACTERISTICS**

1. Tough and durable paint film.
2. Good flow and smooth finish.
3. Shorter drying time as compared to normal enamel.
4. Ease of application. Can be applied by normal spraying equipment.

### **APPLICATION DATA**

SURFACE PREPARATION	The surface to be painted must be dry, clean and free from dirt, grease, oil and other contaminations. Method of surface preparation depends on the type of substrate and the condition under which it will operate.		
	Ferrous Metal - Prime with Nippon Metal Red Oxide Primer or Nippon 1100 Fast Drying Primer for better result.		
	Non-Ferrous Metal - Prime with Nippon Vinilex 120 Active Primer		
THINNING	Wood and Timber - Prime with Nippon Aluminium Wood Primer		
	Thin only to improve workability wit Thinner General Purpose. Note: 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.		
APPLICATION METHOD	Brush, roller. Compressed air spray and airless spray.		
APPLICATION GUIDING DATA	<b><u>Conventional Spray Gun</u></b>	<b><u>Airless</u></b>	<b><u>Air Pressure</u></b>
	Delivery Pressure	140kg-170kg/cm <sup>2</sup>	3 - 4kg/cm <sup>2</sup>
	Tip Size (at 70° angle)	0.017"	1.3-1.5mm
	Thinner Dilution	5%	20-25%
	<b><u>Brush or Roller</u></b>		
	Dilution	10-15%	

FILM THICKNESS	A maximum dry film thickness 30 microns per coat is recommended.
NO. of COAT	1-2 coats.
PAINT COVERAGE (20% loss factor)	<p>Theoretical: 14.9m<sup>2</sup>/litre Practical: 11.9m<sup>2</sup>/litre (at 30µm DFT)</p> <p>The actual loss factor for a particular job may vary depending on the application condition, method and technique; surface condition; as well as the structure and dimension of the object to be coated.</p> <p>This theoretical coverage rate has been calculated from the volume solid 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 to 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.</p>
COATING INTERVAL	Minimum: 24 hours at 25°C to 30°C
DRYING TIME	<p>Dry to touch: 45 minutes at 25°C to 30°C Dry to Handle: After 16 hours at 25°C to 30°C</p> <p>These are dependent on the film thickness and the ventilation of the environment allowed. Increased temperature will speed up the drying time.</p>
CURING TIME	<p>Complete curing should be obtained after 5-7 days at 25°C to 30°C Increased temperature time will accelerate the rate of curing.</p>

#### **ENVIRONMENT CONDITION DURING APPLICATION**

1. Do not apply when the relative humidity exceeds 85%. The temperature of the substrate to be painted must be 3°C higher than the dew point.
2. Do not apply at temperature below 7°C. If not, drying and overcoating time will be considerably extended.
3. During application of the paint, naked flame, welding operations and smoking should not be allowed and good ventilation is necessary.

#### **SAFETY, HEALTH AND ENVIRONMENT CONDITION**

1. Flammable Liquid. Do not expose to heat, sparks or open flame.
2. Skin Contact: May cause moderate skin irritation. Avoid prolong contact with skin. Use solvent resistant glove. To remove splashes of paint from skin, use soap and water.
3. Inhalation: Respiratory irritation. Only used in well ventilated areas. Do not breathe vapor or spray paint. Respirator with organic vapor cartridges recommended.
4. Eye Contact: Cause severe eye irritation and blurred vision. Safety glasses / goggles with side shields recommended. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
5. Ingestion: Harmful if swallowed. Keep away from drinks, food and out of reach of children. If swallowed, seek medical advice immediately and show the container or label.
6. In the event of an accident, contain and collect spillage using sand or earth or absorbent. Do not empty into drain or water courses.
7. Wastes and empty containers should be treated and disposed of in accordance with national and local regulations. Empty containers and packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

### **GENERAL INFORMATION**

SHELF LIFE	Up to 24 months when stored in tightly sealed containers below 25°C.
PACKING	5 litres and 20 litres
PRECAUTION	It contains volatile and flammable solvents. Ensure adequate ventilation during use; avoid naked flame, welding operation and fire. Never mix alcohol or water into the paint. Avoid undue contact with skin. All equipment should be cleaned with Thinner General Purpose immediately after use.

*NOTE: The information given applies to the product and its performance under specific test conditions. Due to the varied circumstances beyond our control under which the product may be applied, for specific application, please contact Nippon Paint Sales & Marketing Dept. We reserve the right to modify our product data sheet without further notice.*