



## NIPPON 300 HIGH TEMPERATURE FINISH

### Product Description

**NIPPON 300 HIGH TEMPERATURE FINISH** is a silicone acrylic based coating which can withstand continuous temperature up to **300°C**. **NIPPON 300 HIGH TEMPERATURE FINISH** provides excellent protection for exhaust manifolds, furnaces, boiler, chimneys and other installations exposed to extreme temperatures.

### Physical Characteristics Of Paint

<b>Colour</b>	:	Aluminium and limited colour range
<b>Texture</b>	:	Aluminium - metallic aluminium lustre
<b>Specific Gravity</b>	:	0.98 - 1.35, depending on colours
<b>Solid Content</b>	:	40 ± 2% by volume

### Recommended For Use

<b>Surface Preparation</b>	:	<b>NIPPON 300 HIGH TEMPERATURE FINISH</b> would not normally be applied directly to steel surface and would only be considered where corrosion problems were insignificant but decoration important. The surface to be painted shall be power tool cleaned to minimum <b>SSPC-SP2 or St 2 ISO 8501-1:1988</b> , free from mill scale. It must be dry and free from dirt, grease, oil and other contaminants. For optimum performance, priming with Nippon NIOZ or Nippon 300 High Temperature Primer to a thickness of 50 and 25 microns respectively is recommended over an abrasive blasted surface to <b>Sa 2½ ISO 8501-1:1988</b> .
<b>Recommended No. Of Coats</b>	:	1 - 2 coats
<b>Recommended Film Thickness Per Coat</b>	:	20 ~ 30 microns for dry film 50 ~ 75 microns for wet film
<b>Theoretical Coverage At Recommended Film Thickness</b>	:	20.0m <sup>2</sup> / litre (for dry film thickness of 20 microns) 13.3m <sup>2</sup> / litre (for dry film thickness of 30 microns)  Theoretical Coverage = $\frac{\text{Volume Solids (\%)} \times 10}{\text{Dry Film Thickness (\mu)}}$ (m <sup>2</sup> /litre)
<b>Practical Coverage (20% loss factor)</b>	:	16.0m <sup>2</sup> /litre (for dry film thickness of 20 microns) 10.6m <sup>2</sup> /litre (for dry film thickness of 30 microns)

**Note :** 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.

<b>Application Methods</b>	:	Brush, roller, compressed air spray.
<b>Guiding Data For Airless Spray</b>	:	Delivery Pressure : 140-170 kg/cm <sup>2</sup> Tip Size : 0.015"- 0.017" Spray Angle : 60° - 70°
<b>Thinning</b>	:	Ready for use after thorough stirring. Where thinning is necessary for improving workability, use about 5% thinner by volume for application by brush and roller and 10 - 15% for application by compressed air spray.

<b>Thinner</b>	:	OP-1 Thinner
<b>Cleaning Solvent</b>	:	OP-1 Thinner

Note: 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.

<b>Drying Time At 25°C to 30°C</b>		
Dry to touch	:	½ hour
Dry to overcoat	:	2 hours

<b>Standard Packing</b>	:	5 litres
<b>Shelf Life At 25°C to 30°C</b>	:	2 years

**Environmental conditions During Application:**

1. 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.
2. Do not apply at temperature below 7°C. If not, drying and overcoating times 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 Environmental Information:**

1. In the wet state, this product is highly inflammable. In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
2. Keep away from sources of ignition. No smoking.
3. Keep container tightly closed and keep out of reach from children.
4. 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.
5. 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.
6. Care must be taken when transporting paint. Keep container in a secure upright position.
7. 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**

1. Does not fully harden until heated to 200°C.
2. 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 accuracy of our information or the suitability of our products in any given condition.

We reserve the right to alter the given data without notice.