

## NATIONAL ALUMINUM H.R. 400°C

<b>DESCRIPTION</b>	A heat resistant silicon based aluminum paint for atmospheric exposure conditions having good weather resistance. It has good flow and leveling and has heat resistance up to 400°C. It should preferably be applied by spray to get the best results. An initial minimum temperature of 200°C is required to initiate the cure of the film.
<b>RECOMMENDED USE</b>	A heat resisting paint for steel structure, pipes, power stations etc. where heat resistance up to 400°C is required

### TECHNICAL DATA

<b>Color, Dry Film</b>	ALUMINUM
<b>Finish, Dry Film</b>	Metallic / Lustrous
<b>Solid by Weight % (ASTM D2697)</b>	24 ± 2%
<b>Specific Gravity</b>	0.95 ± 0.05
<b>Theoretical Spreading Rate</b>	8.0 m <sup>2</sup> /Ltr.
<b>Film Thickness</b>	(Dry Film) 30 microns/Coat. (Wet Film) 125 microns/Coat.
<b>Flash Point</b>	25°C.
<b>Flexibility</b>	Good
<b>Abrasion Resistance</b>	Good
<b>Weather Resistance</b>	Good

### DRYING TIME

Drying Time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
<b>Touch Dry</b>	1 hr.
<b>Dry To Recoat / Overcoat*</b>	4 hrs.
<b>Fully Cured</b>	1. The product cures by a gradual rise in temperature. 2. The following cure schedule is recommended: - 30 minutes gradual rise to 100°C - 1 hour gradual rise to 200°C - 2 hour rise to 400°

\*With the same generic type paint.

### ADVANTAGES

**National ALUMINUM H.R. 400°C** Single pack, aluminum paint based on silicon resin, with good flow properties. The fully cured film has good hardness and resistance up to 400°C.

### SURFACE PREPARATION

Surface is to be blast cleaned to Sa2.5 to obtain maximum heat resistance

**APPLICATION DATA**

<b>Application Methods</b>	Airless Spray      Conventional Spray      Brush
<b>Thinning / Cleaning of Tools</b>	<b>National G.P. Thinner</b>
<b>Thinner (Max Volume)</b>	Ready to use
<b>Conv. Spray Requirements</b>	Atomizing pressure: 40 psi
<b>Airless Spray Requirements</b>	Pressure: 2200 psi.
<b>Nozzle Size</b>	0.016” – 0.018”
<b>Mixing Ratio (By Volume)</b>	Not applicable
<b>Pot Life @ 30°C (100 ml.)</b>	Not applicable

**SYSTEM**

<b>RECOMMENDED SYSTEM</b> To be applied on the prepared surface.	<u><b>No. of coats x DFT (microns)</b></u> <b>National ALUMINUM H.R. 400°C</b> :      2 x 30
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**MISCELLANEOUS DATA**

<b>STORAGE</b>	The product must be stored according to National Regulations. The product should be kept in a cool and well ventilated place, protected from heat and direct sunlight at temp 5 - 35°C. Containers must be kept tightly closed.
<b>HANDLING</b>	Handle with care, mix well before use.
<b>SHELF LIFE</b>	6 months, in original sealed container, with proper storage conditions.
<b>SAFETY / HEALTH</b>	<ul style="list-style-type: none"> <li>- Ensure good ventilation during application and drying.</li> <li>- Avoid contact with skin and eyes. While painting it is advisable to wear eye protector. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. To remove splashes from skin; use soap and water or a recognized skin cleaner.</li> <li>- Keep out of reach of children.</li> <li>- This as industrial product contains flammable materials and should be kept away from the sparks and open flames, smoking in the area should not be permitted. Local safety regulations should be followed.</li> </ul>
<b>TDS ISSUE NO. &amp; DATE</b>	( 1 ) May 2014
<b>NOTE:</b>	<i>We warranty the quality of our product and this data sheet represents test results and practical experience obtained under controlled conditions. We reserve the right to change data without prior notice.</i>