



**NATIONAL GUARD ALUMINIUM  
PROTECTIVE COATINGS**

**TECHNICAL DATA SHEET**

## NATIONAL GUARD ALUMINIUM

<b>PRODUCT DESCRIPTION</b>	A two-pack epoxy finishing coat, pigmented with metallic aluminium. It provides an excellent chemical resistant and very good abrasion resistant coating. It has very good water resistance as well.
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<b>RECOMMENDED USES</b>	Protection of steel and concrete in aggressive marine and industrial environment. Epoxy topcoat for LPG cylinders.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	Silver
<b>FINISH, DRY FILM</b>	Metallic / Glossy
<b>VOLUME SOLIDS (ASTM D2697)</b>	44 ± 2%
<b>SPECIFIC GRAVITY</b>	1.06 ± 0.05 (of mix)
<b>THEORETICAL SPREADING RANGE</b>	11 M <sup>2</sup> /LTR
<b>RECOMMENDED DFT RANGE (DRY FILM THICKNESS)</b>	40 Microns/Coat
<b>RECOMMENDED WFT RANGE (WET FILM THICKNESS)</b>	90 Microns/Coat
<b>FLASH POINT</b>	25°C
<b>FLEXIBILITY</b>	Good
<b>WATER RESISTANCE</b>	Very good
<b>CHEMICAL RESISTANCE</b>	Excellent
<b>ABRASION RESISTANCE</b>	Very 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>	3 hours
<b>DRY TO RECOAT / OVERCOAT</b>	24 hours (minimum), for maximum over coating interval please refer to Technical Service Division.
<b>FULLY CURED</b>	7 days



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**ADVANTAGES**

<b>NATIONAL GUARD ALUMINIUM</b>	Two pack epoxy coating with metallic aluminium. Film provides excellent chemical resistance, very good water and abrasion resistant coating.
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**APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	It can be applied directly over intermediate coat or primed substrate. Galvanized steel, aluminium and other light metal alloys should be etched or wash primed before primer and undercoat application.
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**APPLICATION DATA**

<b>APPLICATION METHOD</b>	Airless Spray	Conventional Spray
<b>CLEANING/THINNING</b>	National Epoxy Thinner (thinner should be added after mixing the component)	
<b>THINNER (VOLUME)</b>	5 – 10%	10 – 15%
<b>CONV. SPRAY REQUIREMENTS</b>	Atomizing Pressure : 50 psi	
<b>AIRLESS SPRAY REQUIREMENTS</b>	2200 psi	
<b>NOZZLE SIZE</b>	0.018” – 0.020”	
<b>MIXING RATIO (BY VOLUME)</b>	Base : Hardener 4 : 1 (Mix thoroughly, keep for 10 – 15 minutes)	
<b>POT LIFE @ 30°C (100 ml)</b>	8 hours (reduced at higher temperature) Note: Material may gel at elevated temperature.	

**SYSTEM**

<b>RECOMMENDED SYSTEM</b> To be applied on prepared surface.	No. of Coats x DFT (Microns)	
	National Guard Zinc Phosphate Epoxy Prime	: 1 x 50
	National Guard Undercoat H.B.	: 1 x 125
	National Guard Aluminium	: 2 x 40

**ADDITIONAL DATA**

<b>SHELF LIFE @ 30°C</b>	18 months, in original sealed container, with proper storage conditions.
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**HEALTH & SAFETY**

<p><b>SAFETY PRECAUTIONS</b></p>	<p>As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and airmask etc. Spillage on skin should immediately be removed by thorough washing with water and soap or suitable cleaner. Eye should be flushed with fresh water. Avoid inhalation of vapours and paint mist by wearing suitable airmask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area.</p> <p>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.</p>
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**STORAGE & HANDLING**

<p><b>STORAGE</b></p>	<p>Store the paint in proper storage conditions as per the local regulations. Keep the paint container in sealed condition under shed, away from direct sunlight and extreme temperatures. Do not stock paint material near to any ignition sources. Do not put back the half or unused material back in original container, containing the supplied paint, to avoid contamination. Handle with care. Stir well before use.</p>
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**NOTE:** We warranty only the quality of our product and this data sheet is based on results obtained from experience and tests. We reserve the right to change data without prior notice. For surface preparation, safety details refer specifier and safety data.

This data sheet supersedes all previous issued.  
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