



NATIONAL GUARD H.B.  
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

## NATIONAL GUARD H.B.

<b>PRODUCT DESCRIPTION</b>	A two pack high build chemical resistant finish coat based on polyamide cured epoxy resin. The fully cured coating has excellent abrasion, mechanical and corrosion resistances. It is also resistant to splash and spillage of mild chemicals and solvents.
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<b>RECOMMENDED USES</b>	As a finish coat for steel surfaces, power plants, tanks, pipes, petrochemical plants. Also on concrete and wooden surfaces where epoxy paints are specified. For exterior use, can be overcoated with National Polyurethane.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	Grey & White
<b>FINISH, DRY FILM</b>	Smooth / Glossy, Semiglossy or Matt
<b>VOLUME SOLIDS (ASTM D2697)</b>	56 ± 2%
<b>SPECIFIC GRAVITY</b>	1.63 ± 0.05 (of mix)
<b>THEORETICAL SPREADING RANGE</b>	11.2 – 5.6 M <sup>2</sup> /LTR
<b>RECOMMENDED DFT RANGE (DRY FILM THICKNESS)</b>	50 – 100 Microns/Coat
<b>RECOMMENDED WFT RANGE (WET FILM THICKNESS)</b>	90 – 180 Microns/Coat
<b>FLASH POINT</b>	25°C
<b>FLEXIBILITY</b>	Good
<b>CHEMICAL RESISTANCE</b>	Excellent
<b>WATER RESISTANCE</b>	Good
<b>SOLVENT RESISTANCE</b>	Good
<b>ABRASION RESISTANCE</b>	Excellent

### 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 overcoating interval please refer to Technical service division.
<b>HARD DRY</b>	7 days

\* With same generic type paint.



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**ADVANTAGES**

<b>NATIONAL GUARD H.B.</b>	Excellent abrasion, mechanical and corrosion resistance. Resistant to splash and spillage of mild chemicals and solvents, very good flow and leveling, good water resistance.
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**APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	It can be applied directly over intermediate coat/undercoat 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	Brush
<b>CLEANING/THINNING</b>	National Epoxy Thinner (thinner should be added after mixing the component)		
<b>THINNER (VOLUME)</b>	5 – 10%	10 – 15%	10%
<b>CONV. SPRAY REQUIREMENTS</b>	Atomizing Pressure : 50 psi		
<b>AIRLESS SPRAY REQUIREMENTS</b>	2200 psi		
<b>NOZZLE SIZE</b>	0.020” – 0.025”		
<b>MIXING RATIO (BY VOLUME)</b>	Base : Hardener 4 : 1 (Mix thoroughly, keep 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 Primer	: 1 x 50
	National Guard Undercoat H.B.	: 1 x 125
	National Guard H.B.	: 1 x 75

**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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