



NATIONAL GUARD M.I.O. H.B.  
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

**NATIONAL GUARD M.I.O. H.B.**

<b>PRODUCT DESCRIPTION</b>	A general purpose two pack high solid polyamide cured recoatable epoxy coating pigmented with micaceous iron oxide. It is resistant to water, mineral oils and chemicals. It also provides high resistance to abrasion and impact. The fully cured coating has excellent moisture barrier action and has recoatability with two component and conventional coatings after weathering periods.
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<b>RECOMMENDED USES</b>	Intermediate coat for in an epoxy system for on-shore and off-shore structural steel, bridges, storage, tanks (exterior) and for waters. It can be overcoated with epoxy and polyurethane paints
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**TECHNICAL DATA**

<b>COLOUR, DRY FILM</b>	Grey
<b>FINISH, DRY FILM</b>	Matt
<b>VOLUME SOLIDS (ASTM D2697)</b>	56 ± 2%
<b>SPECIFIC GRAVITY</b>	1.56 ± 0.05 (of mix)
<b>THEORETICAL SPREADING RANGE</b>	5.6 – 3.7 M <sup>2</sup> /LTR
<b>RECOMMENDED DFT RANGE (DRY FILM THICKNESS)</b>	100 – 150 Microns/Coat
<b>RECOMMENDED WFT RANGE (WET FILM THICKNESS)</b>	180 – 270 Microns/Coat
<b>FLASH POINT</b>	25°C
<b>FLEXIBILITY</b>	Very good
<b>WATER RESISTANCE</b>	Very good
<b>CHEMICAL RESISTANCE</b>	Very good
<b>SOLVENT RESISTANCE</b>	Very good
<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>	4 hours
<b>DRY TO RECOAT / OVERCOAT</b>	24 hours (minimum) – For maximum recoating interval please refer to Technical service division.
<b>FULLY CURED</b>	4 days



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**ADVANTAGES**

<b>NATIONAL GUARD M.I.O. H.B.</b>	The fully cured film is resistant to water, mineral oils and chemicals. It also provides high resistance to abrasion and impact, excellent moisture barrier properties, excellent adhesion on even old epoxy coatings.
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**APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	It can be applied directly as intermediate coat on suitably primed substrate. Galvanized steel, aluminium and other light metal alloys should be etched or wash primed for primer 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 only be added after mixing the components)		
<b>THINNER (VOLUME)</b>	5 – 10%	10 – 15%	10%
<b>CONV. SPRAY REQUIREMENTS</b>	Atomizing Pressure : 60 psi		
<b>AIRLESS SPRAY REQUIREMENTS</b>	2200 psi		
<b>NOZZLE SIZE</b>	0.025"		
<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 Epoxy Red Oxide Primer	: 1 x 50
	National Guard M.I.O. H.B.	: 1 x 125
	National Guard Topcoat (OR)	: 1 x 50
	National Polyurethane Topcoat	: 1 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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