



**NATIONAL GUARD EPOXY M.I.O. PRIMER**  
**PROTECTIVE COATINGS**

**TECHNICAL DATA SHEET**

## NATIONAL GUARD EPOXY M.I.O. PRIMER

<b>PRODUCT DESCRIPTION</b>	A general purpose two-pack polyamide cured epoxy primer/sealer coating pigmented with micaceous iron oxide. The dry film is having superior resistance to water, chemicals and mineral oils. It also provides a tough flexible coating with long term protection. It has excellent adhesion and moisture barrier action for steel and concrete structures especially exposed to marine conditions. It can be overcoated with National Polyurethane also.
<b>RECOMMENDED USES</b>	Protective coating system for on shore and off shore structural steel, exterior of storage tanks, bridges and towers. It can be recoated with two component and conventional coatings.

### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	Grey and Red brown
<b>FINISH, DRY FILM</b>	Eggshell
<b>VOLUME SOLIDS (ASTM D2697)</b>	52 ± 2%
<b>SPECIFIC GRAVITY</b>	1.55 ± 0.05 (of mix)
<b>THEORETICAL SPREADING RANGE</b>	10.4 – 5.2 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>	95 – 195 Microns/Coat
<b>FLASH POINT</b>	25°C
<b>FLEXIBILITY</b>	Good
<b>CHEMICAL RESISTANCE</b>	Good
<b>ABRASION 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>	2 – 3 hours
<b>DRY TO RECOAT / OVERCOAT</b>	12 hours (minimum) – For maximum recoating interval please refer to Technical service department.
<b>FULLY CURED</b>	4 days



**NATIONAL GUARD EPOXY M.I.O. PRIMER  
PROTECTIVE COATINGS**

**TECHNICAL DATA SHEET**

### **APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	Oil and grease should be removed by solvent cleaning. Sand blast to Sa 2.5, then clean & dry. Apply immediately National Guard Epoxy Red Oxide Primer after the steel has been blasted.
<b>REPAIR</b>	Corroded areas should be power tool cleaned to St3 or blast cleaned to Sa2 or better. Existing system should be dry and free from loose paint, salt, grease and other contaminants prior to overcoating.

### **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 components)		
<b>THINNER (VOLUME)</b>	5 – 10%	10 – 15%	10%
<b>CONV. SPRAY REQUIREMENTS</b>	Atomizing Pressure : 40 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 temperatures) 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 Rich Epoxy Primer	: 1 x 30
	National Guard Epoxy M.I.O. Primer	: 1 x 75
	National Guard Topcoat (OR) National Polyurethane Topcoat	: 1 x 50 : 1 x 40

### **ADDITIONAL DATA**

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



**NATIONAL GUARD EPOXY M.I.O. PRIMER  
PROTECTIVE COATINGS**

**TECHNICAL DATA SHEET**

### **HEALTH & SAFETY**

<b>SAFETY PRECAUTIONS</b>	<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>
-------------------------------	---

### **STORAGE & HANDLING**

<b>STORAGE</b>	<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>
----------------	---

**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.  
Issued: 0608