



NATIONAL RED OXIDE PRIMER  
DECORATIVE COATINGS

TECHNICAL DATA SHEET

## NATIONAL RED OXIDE PRIMER

<b>PRODUCT DESCRIPTION</b>	A general – purpose alkyd based primer loaded with non – toxic and anticorrosive pigments for the protection of steel surfaces against moderate corrosive environments. The product offers good leveling and coverage with excellent adhesion on power tool prepared substrates. It is an economical anticorrosive primer for general – purpose applications.
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<b>RECOMMENDED USES</b>	It is recommended for steel structures and surfaces in domestic and mild corrosive environments. It is not suitable for constant water immersion or over coating of zinc primed steel. It has very good hiding power and can hide minor surface imperfections or stains on surfaces. It is used for, only air drying purpose. It can be over coated with National Alkyd based paints.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	Red – Brown
<b>FINISH, DRY FILM</b>	Smooth / Matt
<b>VOLUME SOLIDS (ASTM D2697)</b>	54 ± 2%
<b>SPECIFIC GRAVITY</b>	1.50 ± 0.05
<b>THEORETICAL SPREADING</b>	18 – 13.5 M <sup>2</sup> / LTR
<b>RECOMMENDED DFT (DRY FILM)</b>	30 – 40 Microns / Coat
<b>RECOMMENDED WFT (WET FILM)</b>	55 – 75 Microns / Coat
<b>FLASH POINT</b>	38°C

### 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>	30 – 45 minutes
<b>*DRY TO RECOAT</b>	12 hours
<b>HARD DRY</b>	24 hours

### ADVANTAGES

<b>NATIONAL RED OXIDE PRIMER</b>	Excellent adhesion, good coverage and hiding power, non – toxic pigments, anticorrosive property on steel surfaces, hides minor surface imperfections and stains on surfaces, economical.
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**APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	Before application, the surface should be sound, clean and free from oil, grease, loose particles, dust, etc. Application can be done by the recommended application methods.
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**APPLICATION DATA**

<b>APPLICATION METHOD</b>	Brush, Roller or Spray
<b>CLEANING/THINNING</b>	National GP Thinner
<b>THINNER (VOLUME)</b>	5 – 15% depends on method of application
<b>CONV. SPRAY REQUIREMENTS</b>	Possible
<b>AIRLESS SPRAY REQUIREMENTS</b>	Pressure: 2000 – 2200 psi
<b>NOZZLE SIZE</b>	0.018” – 0.020”
<b>MIXING RATIO (BY VOLUME)</b>	One pack
<b>POT LIFE @ 30°C (100 ml)</b>	NA

**SYSTEM**

<b>RECOMMENDED SYSTEM</b> To be applied on prepared surface.	National Red Oxide Primer	: 1 coat
	National Synthetic Undercoat	: 1 coat
	National Synthetic Enamel Gloss I	: 2 coats
	(OR)	
	National Synthetic Enamel Gloss II	: 2 coats

**NATIONAL/INTERNATIONAL TEST CERTIFICATES**

Sr. No.	Test Description	Test Reference	Compliance
1	VOC	ISO 11890 – 2	Local Regulatory Requirements
2	Heavy Metals (Mercury, Lead, Cadmium, Hexavalent Chromium / Arsenic,/ Antimony)	ISO 3856 / ISO 2590 / ICP – OES	Local Regulatory Requirements
3	TBT / TPT / Halogenated Hydrocarbon / Aromatic Hydrocarbon	ISO 17353 / ASTM D 4457 / ASTM D 3257	Local Regulatory Requirements
4	Formaldehyde	ASTM D 6191	Local Regulatory Requirements



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### **ADDITIONAL DATA**

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

<b>SAFETY PRECAUTIONS</b>	<p>As a general rule, avoid skin and eye contact by wearing overalls, gloves, goggles, and mask 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 mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area.</p> <p>This 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 to be followed.</p>
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### **STORAGE & HANDLING**

<b>STORAGE</b>	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.
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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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