



NATIONAL M.I.O. UNDERCOAT
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL M.I.O. UNDERCOAT

PRODUCT DESCRIPTION	A modified alkyd based undercoat pigmented with micaceous iron oxide. It has good water resistance and offers good barrier against water vapour. It is used as build coat in alkyd systems. It has excellent adhesion to various primers. It provides high UV resistance and resistance to atmospheric exposures.
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RECOMMENDED USES	Undercoat for external structural steel, cranes, towers, bridges and pipelines in mild industrial environments. It is used as part of alkyd system for internal and external applications.
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TECHNICAL DATA

COLOUR, DRY FILM	Light grey
FINISH, DRY FILM	Matt
VOLUME SOLIDS (ASTM D2697)	48 ± 2%
SPECIFIC GRAVITY	1.55 ± 0.05
THEORETICAL SPREADING RANGE	12.0 – 9.6 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	40 – 50 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	84 – 105 Microns/Coat
FLASH POINT	25°C
FLEXIBILITY	Good

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	6 – 8 hours
DRY TO RECOAT/OVERCOAT	24 hours
FULLY CURED	48 hours

ADVANTAGES

NATIONAL M.I.O. UNDERCOAT	The dry film has good water resistance. Also offers good barrier against water vapour, excellent adhesion and high UV resistance, provides resistance to atmospheric industrial exposure, resistance to abrasion.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	It can be applied directly over primed panel. Galvanized steel, Aluminium and other light metal alloys should be etched or wash primed.
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APPLICATION DATA

APPLICATION METHOD	Airless Spray	Conventional Spray	Brush
CLEANING/THINNING	National G.P. Thinner		
THINNER (VOLUME)	5 – 10%	10 – 15%	10%
CONV. SPRAY REQUIREMENTS	Atomizing Pressure : 50 psi		
AIRLESS SPRAY REQUIREMENTS	Pressure: 2000 – 2200 psi		
NOZZLE SIZE	0.018” – 0.020”		
MIXING RATIO (BY VOLUME)	Not applicable		
POT LIFE @ 30°C (100 ml)	Not applicable		

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	No. of Coats x DFT (Microns)	
	National Zinc Phosphate Primer	: 1 x 40
	National M.I.O. Undercoat	: 1 x 40
	National Synthetic Enamel Gloss I or Gloss II	: 2 x 35

ADDITIONAL DATA

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

SAFETY PRECAUTIONS	<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 ignition sources. Local safety regulations should be followed.</p>
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STORAGE & HANDLING

STORAGE	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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