



NATIONAL SYNTHETIC ENAMEL GLOSS II M.I.O.
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL SYNTHETIC ENAMEL GLOSS II M.I.O.

PRODUCT DESCRIPTION	It is a fast drying enamel paint based on modified high quality alkyd resin, pigmented with micaceous iron oxide. It provides tough and glossy finish with good water resistance. The film has excellent abrasion resistance and hardness. It also offers a good barrier against water vapour. It has excellent adhesion and UV resistance. It provides good resistance to industrial atmospheric exposure.
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RECOMMENDED USES	Topcoat on external structural steel, cranes, towers, bridges and pipelines in mild industrial environments. It can be used for internal and external applications as part of alkyd systems.
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TECHNICAL DATA

COLOUR, DRY FILM	Light grey
FINISH, DRY FILM	Gloss
VOLUME SOLIDS (ASTM D2697)	52 ± 2%
SPECIFIC GRAVITY	1.30 ± 0.05
THEORETICAL SPREADING RANGE	13.0 – 10.4 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	40 – 50 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	77 – 97 Microns/Coat
FLASH POINT	28°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/OVER COAT	24 hours
HARD DRY	48 hours

*with same generic type pain.

ADVANTAGES

NATIONAL SYNTHETIC ENAMEL GLOSS II M.I.O.	Provides tough and high gloss finish. Excellent abrasion resistance and hardness, offers good barrier against water vapour, provides good resistance to industrial atmospheric exposure.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	It can be applied directly over intermediate coat 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

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	2200 psi		
NOZZLE SIZE	0.015" – 0.018" for Airless spray		
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 II M.I.O.	: 2 x 45

ADDITIONAL DATA

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

SAFETY PRECAUTIONS	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. 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.
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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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