



**NATIONAL SYNTHETIC UNDERCOAT
PROTECTIVE COATINGS**

TECHNICAL DATA SHEET

NATIONAL SYNTHETIC UNDERCOAT

PRODUCT DESCRIPTION	It is a high performing alkyd based, non-absorbent intermediate coat to provide maximum hold out for the topcoats. It can be applied on interior/exterior surfaces and has very good adhesion. It hides the minor surface imperfections and gives maximum performances to further coatings. It has very good leveling and coverage.
RECOMMENDED USES	It is used as a general-purpose undercoat for interior/exterior painting works. It is recommended to apply National Red Oxide Primer on steel surfaces, prior to applying undercoat. It can be over coated with National alkyd based systems. It is not suitable for application on Zinc primed steel.

TECHNICAL DATA

COLOUR, DRY FILM	White, Grey
FINISH, DRY FILM	Smooth / Matt
VOLUME SOLIDS (ASTM D2697)	50 ± 2%
SPECIFIC GRAVITY	1.50 ± 0.05
THEORETICAL SPREADING RANGE	12.5 – 10 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	40 – 50 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	80 – 100 Microns/Coat
FLASH POINT	38°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	1 – 1 ½ hours
DRY TO RECOAT/OVER COAT	12 hours
HARD DRY	24 hours



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ADVANTAGES

NATIONAL SYNTHETIC UNDERCOAT	Non-absorbent intermediate coat, maximum hold out for further coats, very good adhesion, hides minor surface imperfections, very good leveling and coverage, suitable for interior/exterior applications.
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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	Brush, Roller, Spray etc.
CLEANING/THINNING	National GP Thinner
THINNER (VOLUME)	5 – 15% depending on the method of application
CONV. SPRAY REQUIREMENTS	Atomizing pressure: 50 psi
AIRLESS SPRAY REQUIREMENTS	Pressure : 2000 – 2200 psi
NOZZLE SIZE	0.018” – 0.020”
MIXING RATIO (BY VOLUME)	One pack
POT LIFE @ 30°C (100 ml)	Not applicable

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	No. of coats x DFT (micron)	
	<u>For Steel Surfaces</u>	
	National Red Oxide Primer	: 1 x 40
	National Synthetic Undercoat	: 1 x 40
	National Synthetic Enamel Gloss I or II	: 2 x 40
	OR	
National recommended system	: 2 x 40	

ADDITIONAL DATA

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

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

<p>STORAGE</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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