



NATIONAL SYNTHETIC UNDERCOAT
DECORATIVE 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 for interior/exterior surfaces and has very good adhesion. It hides the minor surface imperfections and gives maximum performances to topcoats over which it is being applied. It has very good leveling and coverage also.
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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 apply undercoat. It can be over coated with National Synthetic Enamel or National Emulsion Paints. It is not suitable for application on Zinc primed steel or for continuous marine environments. It is used for only air – drying applications.
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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	16.5 – 12.5 M ² / LTR
RECOMMENDED DFT (DRY FILM)	30 – 40 Microns / Coat
RECOMMENDED WFT (WET FILM)	60 – 80 Microns / Coat
FLASH POINT	38°C

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	12 hours
HARD DRY	24 hours

* For same generic type paint.

ADVANTAGES

NATIONAL SYNTHETIC UNDERCOAT	Non – absorbent intermediate coat, maximum hold out for topcoats, very good adhesion, hides minor surface imperfections, very good leveling and coverage, suitable for interior/exterior surfaces etc.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	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

APPLICATION METHOD	Brush, Roller, Spray etc.
CLEANING/THINNING	National GP Thinner
THINNER (VOLUME)	5 – 15% depends on the method of application
CONV. SPRAY REQUIREMENTS	Possible
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)	NA

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	<u>For Steel Surfaces</u>	
	National Red Oxide Primer	: 1 coat
	National Synthetic Undercoat	: 1 coat
	National Synthetic Enamel Gloss I or II	: 2 coats
	<u>For Masonry Surfaces</u>	
	National PVA Primer for Masonry	: 1 coat
	National Stucco Filler (for Interior)	: 2 coats
	National Synthetic Undercoat	: 1 coat
	National Synthetic Enamel Gloss I or II	: 2 coats
	(OR)	
National Emulsion Paint (Washable)	: 2 coats	



NATIONAL/INTERNATIONAL TEST CERTIFICATES

Sr. No.	Test Description	Test Reference	Compliance
1	VOC	GC – FID USEPA – 24	Local Regulatory Requirements
2	Heavy Metals (Arsenic, Cadmium, Mercury, Lead, Hexavalent Chromium, Antimony, TBT, TPT)	ICP-AES IHP/GC-MS	Local Regulatory Requirements
3	Formaldehyde	USEPA 8260 / 3510	Local Regulatory Requirements

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 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

STORAGE	<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.
Issued: 0718