



**NATIONAL FLAT/MATT SYNTHETIC ENAMEL  
DECORATIVE COATINGS**

**TECHNICAL DATA SHEET**

## NATIONAL FLAT/MATT SYNTHETIC ENAMEL

<b>PRODUCT DESCRIPTION</b>	It is a general purpose decorative, smooth and washable, alkyd based flat/matt synthetic enamel for interior applications. It has excellent leveling and opacity to provide a smooth decorative flat finish on surfaces. It can be used for masonry as well as steel surfaces applications in moderate atmospheric environments. It is highly washable and easy for cleaning. It has excellent adhesion on recommended surfaces.
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<b>RECOMMENDED USES</b>	It is used as a general – purpose washable interior decorative finish for walls, ceilings, wood and metal surfaces. For steel surfaces, use National Red Oxide Primer prior to apply Flat/Matt Synthetic Enamel. It can be over coated with National Alkyd Based Paints. It is not suitable for the applications, on continuous damp surfaces or in marine environments. It is used for only air – drying applications.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	As per National Shade Card
<b>FINISH, DRY FILM</b>	Smooth / Matt
<b>VOLUME SOLIDS (ASTM D2697)</b>	50 ± 2%
<b>SPECIFIC GRAVITY</b>	1.50 ± 0.05
<b>THEORETICAL SPREADING</b>	16.5 – 12.5 M <sup>2</sup> / LTR
<b>RECOMMENDED DFT (DRY FILM)</b>	30 – 40 Microns / Coat
<b>RECOMMENDED WFT (WET FILM)</b>	60 – 80 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>	1 – 1 ½ hours
<b>*DRY TO RECOAT</b>	12 hours
<b>HARD DRY</b>	24 hours

\*For same generic type paint.



**ADVANTAGES**

<b>NATIONAL FLAT/MATT SYNTHETIC ENAMEL</b>	Washable and easy for cleaning, provides a decorative smooth flat/matt finish, excellent leveling and opacity, excellent adhesion, general purpose and economical finish.
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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, Spray etc.
<b>CLEANING/THINNING</b>	National GP Thinner
<b>THINNER (VOLUME)</b>	5 – 15% depends on the 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.	<u>For Steel Surfaces</u>	
	National Red Oxide Primer	: 1 coat
	National Synthetic Undercoat	: 1 coat
	National Flat/Matt Synthetic Enamel	: 2 coats
	<u>For Masonry Surfaces</u>	
	National PVA Primer Sealer for Masonry	: 1 coat
	(OR)	
	National PVA Primer White for Masonry	: 1 coat
	National Stucco Filler	: 2 coats
	National Synthetic Undercoat	: 1 coat
National Flat/Matt Synthetic Enamel	: 1 coat	



**NATIONAL/INTERNATIONAL TEST CERTIFICATES**

<b>Sr. No.</b>	<b>Test Description</b>	<b>Test Reference</b>	<b>Compliance</b>
1	VOC	ISO 11890 – 2 GC – FID USEPA – 24	Local Regulatory Requirements
2	Heavy Metals (Mercury, Lead, Cadmium, Chromium/ Arsenic./ Antimony)	ISO 3856 / ISO 2590 / ISO CP - OES	Local Regulatory Requirements
3	TBT / TPT / Halogenated Hydrocarbon / Aromatic Hydrocarbon	ISO 17356 / ASTM D 4457 / ASTM D 3257	Local Regulatory Requirements
4	Formaldehyde	ASTM D 6191	Local Regulatory Requirements

**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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