



**NATIONAL SYNTHETIC ENAMEL GLOSS I**  
**DECORATIVE COATINGS**

**TECHNICAL DATA SHEET**

**NATIONAL SYNTHETIC ENAMEL GLOSS I**

<b>PRODUCT DESCRIPTION</b>	It is a general – purpose, economical synthetic enamel, based on alkyd resin, for architectural and decorative paints for wooden, masonry, steel and other surfaces. It dries to give high gloss film, resistant to cracks and withstands abrasions. It has good weather resistance and washability. It has very good adhesion on interior/exterior surfaces.
----------------------------	---

<b>RECOMMENDED USES</b>	It is recommended as architectural decorative paints for masonry, metal etc. surfaces in domestic and moderate environments. It is not suitable for constant water immersion or over coating of zinc primed steel. It has very good hiding power and can hide minor surface imperfections. It is used for only air – drying purpose, it is preferred for interior use.
-------------------------	--

**TECHNICAL DATA**

<b>COLOUR, DRY FILM</b>	As per National Shade Card
<b>FINISH, DRY FILM</b>	Smooth / Glossy
<b>VOLUME SOLIDS (ASTM D2697)</b>	43 ± 2%
<b>SPECIFIC GRAVITY</b>	1.09 ± 0.05 (White and Pastel Colours)
<b>THEORETICAL SPREADING</b>	14.0 – 11.0 M <sup>2</sup> / LTR
<b>RECOMMENDED DFT (DRY FILM)</b>	30 – 40 Microns / Coat
<b>RECOMMENDED WFT (WET FILM)</b>	70 – 95 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>	6 – 8 hours
<b>*DRY TO RECOAT</b>	24 hours
<b>HARD DRY</b>	24 hours

\* For same generic type paint.

**ADVANTAGES**

<b>NATIONAL SYNTHETIC ENAMEL GLOSS I</b>	High gloss, resistant to cracks and withstands abrasions, good washability for easy cleaning, very good adhesion, decorative finish, very good hiding power, economical.
--	--



**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.
----------------------------	---

**APPLICATION DATA**

<b>APPLICATION METHOD</b>	Brush, Roller, Spray etc.
<b>CLEANING/THINNING</b>	National GP Thinner
<b>THINNER (VOLUME)</b>	5 – 10% 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 Synthetic Enamel Gloss I	: 2 coats
	<u>For Masonry Surfaces</u>	
	National PVA Primer Sealer for Masonry	: 1 coat
	National Stucco Filler (for Interior)	: 2 coats
	National Synthetic Undercoat	: 1 coat
National Synthetic Enamel Gloss I	: 2 coats	

**NATIONAL/INTERNATIONAL TEST CERTIFICATES**

Sr. No.	Test Description	Test Reference	Compliance
1	VOC	ISO 11890 – 2 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
4	Pull Off Strength	EN ISO 4624 : 2003	



**NATIONAL SYNTHETIC ENAMEL GLOSS I  
DECORATIVE COATINGS**

**TECHNICAL DATA SHEET**

**ADDITIONAL DATA**

<b>SHELF LIFE @ 30°C</b>	18 months, in original sealed container, with proper storage conditions.
--------------------------	--

**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>
-------------------------------	--

**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.
----------------	--

**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