



**NATIONAL POLYURETHANE FLOORING H.B.  
DECORATIVE COATINGS**

**TECHNICAL DATA SHEET**

## NATIONAL POLYURETHANE FLOORING H.B

<b>PRODUCT DESCRIPTION</b>	Is a fast drying, two component Polyurethane based, high build topcoat, mainly useful for metal, cementitious surfaces, walls, floor coating purpose. It has excellent resistance to water, abrasion and marine environments, with excellent U.V. resistance.
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<b>RECOMMENDED USES</b>	Topcoat on metal, cementitious surfaces, wall, wooden surfaces. Recommended for interior and exterior applications on wall, floorings. Also recommended on metal profiles and for maintenance jobs.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	As per National Shade card
<b>FINISH, DRY FILM</b>	Smooth / Semigloss
<b>VOLUME SOLIDS (ASTM D2697)</b>	50 ± 2%
<b>SPECIFIC GRAVITY</b>	1.30 ± 0.05 (mixed)
<b>THEORETICAL SPREADING</b>	10 – 7 M <sup>2</sup> /LTR
<b>RECOMMENDED DFT (DRY FILM)</b>	50 – 70 Microns/Coat
<b>RECOMMENDED WFT (WET FILM)</b>	100 – 140 Microns/Coat
<b>FLASH POINT</b>	25°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>	2 – 3 hours
<b>DRY TO RECOAT</b>	8 – 10 hours
<b>HARD DRY</b>	7 days

### ADVANTAGES

<b>NATIONAL POLYURETHANE FLOORING H.B. SYSTEM</b>	Self-leveling, high build with excellent water resistance, chemical resistance, abrasion resistance. The dried film is also resistant to high impact.
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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>	Conventional Spray, Airless Spray, Roller or Brush (touch – up)
<b>CLEANING/THINNING</b>	National Polyurethane Thinner
<b>THINNER (VOLUME)</b>	5%, depending on method of applications
<b>CONV. SPRAY REQUIREMENTS</b>	Possible
<b>AIRLESS SPRAY REQUIREMENTS</b>	Pressure : 2200 psi
<b>NOZZLE SIZE</b>	0.016” – 0.019”
<b>MIXING RATIO (BY VOLUME)</b>	Base : Hardener 4 : 1 (Mixing properly, keep for 15 – 20 minutes before use)
<b>POT LIFE @ 30°C (100 ml)</b>	4 hours

**SYSTEM**

<b>RECOMMENDED SYSTEM</b> To be applied on prepared surface. Apply on proper surface, dust free, moisture free and grease free. Use fine and medium aggregates, if required for flooring application.	For Flooring purpose:	
	National Guard Primer for Cement Clear	: 1 coat
	National Polyurethane Flooring H.B.	: 2 coats
	OR	
	Other National recommended system	



**NATIONAL/INTERNATIONAL TEST CERTIFICATES**

<b>Sr. No.</b>	<b>Test Description</b>	<b>Test Reference</b>	<b>Compliance</b>
1	Shore A' Hardness	ASTM D 2240	
2	Tensile Strength	ASTM D 412-06a	
3	Elongation	ASTM D 412-06a	
4	Bond Strength	BS 1881 Part 207	
5	Impact Resistant	ISO 6272	
6	Rapid Chloride Permeability	ASTM C 1202:97	
7	Alkali Resistance	ASTM D 543:1995	
8	Chemical Resistance	ASTM D 1308:87	
9	Tear Strength	ASTM D 624-00(2012)	
10	UV Resistance	ASTM G 154:06	
11	VOC	USEPA	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 should 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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