



NATIONAL POLYURETHANE H.B.
DECORATIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL POLYURETHANE H.B.

PRODUCT DESCRIPTION	It 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.
RECOMMENDED USES	Topcoat on metal, cementitious surfaces, wall, wooden surfaces. Recommended for interior and exterior applications on wall, floorings etc. Also recommended on metal profiles and for maintenance jobs.

TECHNICAL DATA

COLOUR, DRY FILM	As per National Shade Card
FINISH, DRY FILM	Smooth / Semigloss
VOLUME SOLIDS (ASTM D2697)	50 ± 2%
SPECIFIC GRAVITY	1.30 ± 0.05 (mixed)
THEORETICAL SPREADING	12.5 – 10 M ² /LTR
RECOMMENDED DFT (DRY FILM)	40 – 50 Microns/Coat
RECOMMENDED WFT (WET FILM)	80 – 100 Microns/Coat
FLASH POINT	25°C

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	2 – 3 hours
DRY TO RECOAT	8 – 10 hours
FULLY CURED	48 – 72 hours

ADVANTAGES

NATIONAL POLYURETHANE H.B. SYSTEM	Self-leveling, high build with excellent water resistance, chemical resistance, and abrasion resistance. The dried film is also resistant to high impact.
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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	Spray, Roller or Brush (touch-up)
CLEANING/THINNING	National Polyurethane Thinner
THINNER (VOLUME)	5% depending on method of application
CONV. SPRAY REQUIREMENTS	Possible
AIRLESS SPRAY REQUIREMENTS	Pressure : 2200 psi
NOZZLE SIZE	0.016" – 0.019"
MIXING RATIO (BY VOLUME)	Base : Hardener 4:1 (Mix properly keep for 10-15 minutes before use)
POT LIFE @ 30°C (100 ml)	4 hours

SYSTEM

RECOMMENDED SYSTEM 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 application:	
	National Guard Primer for Cement Clear	: 1 coat
	National Guard Epoxy Flooring S.F.	: 1 coat
	(OR)	
	National Guard Epoxy Flooring Topcoat	: 1 coat
	National Polyurethane H.B.	: 2 coats

ADDITIONAL DATA

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

SAFETY PRECAUTIONS	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. 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.
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STORAGE & HANDLING

STORAGE	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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