



**NATIONAL POLYURETHANE PRIMER
PROTECTIVE COATINGS**

TECHNICAL DATA SHEET

NATIONAL POLYURETHANE PRIMER

PRODUCT DESCRIPTION	A two pack isocyanate cured polyurethane primer with very good adhesion and non-chalking surface. It has excellent water resistance and is resistant to splash of mineral and vegetable oils, white spirit, paraffin and mild chemicals. It can be used for interior/exterior surfaces and marine environments.
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RECOMMENDED USES	As an anticorrosive and protective primer on metal, cementitious and wooden surfaces. Recommended for interior and exterior applications. It is also recommended on metal profiles and for maintenance jobs. It can be used for the applications in marine environments as well.
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TECHNICAL DATA

COLOUR, DRY FILM	White & Grey
FINISH, DRY FILM	Smooth / Matt
VOLUME SOLIDS (ASTM D2697)	55 ± 2%
SPECIFIC GRAVITY	1.45 ± 0.05 (of mix)
THEORETICAL SPREADING RANGE	13.8 – 11 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	40 – 50 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	72 – 92 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	1 – 2 hours
*DRY TO RECOAT / OVERCOAT	6 – 8 hours
HARD DRY	48 hours

*With the same generic type paint.

ADVANTAGES

NATIONAL POLYURETHANE PRIMER	Fast drying primer with excellent water resistance, chemical resistance and abrasion resistance. The fully cured film is resistant to high impact and mechanical damage.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	New concrete should be allowed to cure for at least 28 days. Remove all grease, oil and other foreign materials by scrubbing with a heavy duty concrete cleaner. On permanent coatings it is recommended that the surface be roughened with suitable mechanical device. On metal surface, an abrasive sandblast is required to Sa3, to make the metal absolutely free from loose particles, milscales and dead metals. Surface should be clean and sound before painting.
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APPLICATION DATA

APPLICATION METHOD	Spray, Roller or Brush (touch-up)
CLEANING/THINNING	National Polyurethane Thinner (thinner should only be added after mixing the components)
THINNER (VOLUME)	5% depending on method of application
CONV. SPRAY REQUIREMENTS	Atomizing pressure: 50 psi
AIRLESS SPRAY REQUIREMENTS	Pressure : 2200 psi
NOZZLE SIZE	0.016” – 0.020” for airless spray
MIXING RATIO (BY VOLUME)	Base : Hardener 4:1 (Mix properly, keep for 10 – 15 minutes before use)
POT LIFE @ 30°C (100 ml)	8 hours (reduced at higher temperature) Note: Material may gel at elevated temperatures.

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	No. of coats x DFT(micron)	
	National Polyurethane Primer	: 1 x 50
	National Polyurethane Topcoat	: 2 x 40

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 airmask 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 airmask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in well-ventilated area.</p> <p>This as industrial 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

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.
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