



NATIONALTHANE TOPCOAT
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

NATIONALTHANE TOPCOAT

PRODUCT DESCRIPTION	A two pack high performance polyurethane topcoat with excellent resistance to water, salt, corrosion and marine environments. The dry film is having excellent adhesion, flexibility and impact resistance. It has excellent UV resistance and exterior durability also. Suitable as topcoat on various paint systems for the colour retention and non-yellowing purpose. Over coating can be done with Nationalthane Varnish.
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RECOMMENDED USES	Interior and Exterior applications on wooden surface, metal and cementitious surface, for decoration and protection in extreme weather conditions. Topcoat for National Tile and National Wall Rock Systems. Suitable for the applications on stones, glass reinforced plastics etc. surfaces.
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TECHNICAL DATA

COLOUR, DRY FILM FINISH, DRY FILM	As per National shade card	Clear
VOLUME SOLIDS (ASTM D2697)	47 ± 2%	27 ± 2%
SPECIFIC GRAVITY	1.27 ± 0.05 (of mix)	0.95 ± 0.05 (of mix)
THEORETICAL SPREADING RANGE	11.7 M ² /LTR	9 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	40 Microns/Coat	30 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	85 Microns/Coat	110 Microns/Coat
FLASH POINT	25°C	25°C
FLEXIBILITY	Excellent	Excellent
WATER RESISTANCE	Excellent	Excellent
IMPACT RESISTANCE	Excellent	Excellent
UV RESISTANCE	Excellent	Excellent

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	12 hours
FULLY CURED	48 hours



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*With same generic type paint.

ADVANTAGES

NATIONALTHANE TOPCOAT	Two pack system with long pot life, dry film has excellent adhesion, flexibility, impact resistance, abrasion resistance, U.V. light stability, weather resistance, anticorrosive property, colour retention and non-yellowing.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	<p><u>For steel surfaces:</u> Oil and grease should be removed by solvent cleaning. Abrasive blasting to min. Sa 2.5 is required for better anchoring. Corroded areas should be powertool cleaned to St3 or blast cleaned to Sa 2.5. Existing system should be dry and free from loose paint, salt, grease and other contaminants prior to over coating.</p> <p><u>For concrete surfaces:</u> New concrete should be allowed to cure for at least 28 days. Old surface should be free from oil, grease and salt etc. Surface should be dry, clean and sound before painting.</p>
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APPLICATION DATA

APPLICATION METHOD	Brush, Roller or Spray
CLEANING/THINNING	National Polyurethane Thinner (thinner should only be added after mixing the components)
THINNER (VOLUME)	5-15% depending on method of applications
CONV. SPRAY REQUIREMENTS	Pressure: 50 psi
AIRLESS SPRAY REQUIREMENTS	Pressure : 2100 psi
NOZZLE SIZE	0.018" – 0.020"
MIXING RATIO (BY VOLUME)	Base : Hardener 4 : 1 (Mix properly, keep 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



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RECOMMENDED SYSTEM To be applied on prepared surface.	No. of coats x DFT (micron)
	For steel and metal surfaces:
	National Guard Zinc Phosphate Epoxy Primer (OR) : 1 x50
	National Guard Epoxy Red Oxide Primer : 1 x50
Nationalthane Topcoat : 2 x40	

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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