



**NATIONAL GUARD TOPCOAT
PROTECTIVE COATINGS**

TECHNICAL DATA SHEET

NATIONAL GUARD TOPCOAT

PRODUCT DESCRIPTION	A two pack, polyamide cured finishing coat in epoxy system with excellent resistance to mild acids, alkalies, oils and chemicals. It has also very good impact and abrasion resistance. It provides very good corrosion resistance and resistance to splash and spillage of mild chemicals and solvents.
RECOMMENDED USES	Topcoat on steel surfaces in moderately to severely corrosive environment. Topcoat for epoxy floor system and car parking. Also on concrete and wooden surfaces where epoxy paints are specified.

TECHNICAL DATA

COLOUR, DRY FILM	As per shade card
FINISH, DRY FILM	Smooth/Glossy, Semi glossy or Matt
VOLUME SOLIDS (ASTM D2697)	55 ± 2%
SPECIFIC GRAVITY	1.40 ± 0.05 (of mix)
THEORETICAL SPREADING RANGE	13.8 – 9.2 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	40 – 60 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	75 – 110 Microns/Coat
FLASH POINT	25°C
FLEXIBILITY	Good
CHEMICAL RESISTANCE	Excellent
SOLVENT RESISTANCE	Very good
WATER RESISTANCE	Good
ABRASION RESISTANCE	Very good

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	3 hours
DRY TO RECOAT / OVERCOAT	18 hours (minimum) – For maximum overcoating interval please refer to Technical service division
HARD DRY	7 days



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ADVANTAGES

NATIONAL GUARD TOPCOAT	Two pack epoxy coating with long pot life, very good resistance to corrosion, splash and spillage of mild chemicals and solvents. It has very good flow and leveling properties, good water resistance, good abrasion and impact resistance.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	It can be applied directly over intermediate coat/undercoat, or primed substrate. Galvanized steel, aluminium, and other light metal alloys should be etched or wash primed before primer and undercoat application.
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APPLICATION DATA

APPLICATION METHOD	Airless Spray	Conventional Spray	Brush
CLEANING/THINNING	National Epoxy Thinner (Thinner should only be added after mixing the component)		
THINNER (VOLUME)	5 – 10%	10 – 15%	10%
CONV. SPRAY REQUIREMENTS	Atomizing Pressure : 50 psi		
AIRLESS SPRAY REQUIREMENTS	2200 psi		
NOZZLE SIZE	0.018” – 0.020”		
MIXING RATIO (BY VOLUME)	Base : Hardener 4 : 1 (Mix thoroughly, keep 10 – 15 minutes)		
POT LIFE @ 30°C (100 ml)	8 hours (reduced at higher temperature) Note: Material may gel at elevated temperature.		

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	No. of Coats x DFT (Microns)	
	National Guard Epoxy Red Oxide Primer	: 1 x 50
	National Guard Undercoat H.B.	: 1 x 125
	National Guard Topcoat	: 1 x 50

ADDITIONAL DATA

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

<p>SAFETY PRECAUTIONS</p>	<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

<p>STORAGE</p>	<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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