



NATIONAL GUARD S.F.  
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

## NATIONAL GUARD S.F.

<b>PRODUCT DESCRIPTION</b>	A two pack solvent free amine cured high build epoxy coating, having one coat protection for steel structures, ships, and storage tanks with excellent corrosion resistance. It is suitable as heavy duty topcoat in solvent free epoxy system. Fully cured film has good resistance to various chemicals.
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<b>RECOMMENDED USES</b>	As a lining for tanks containing petrol, sewage water etc. It can be used for the protection of the steel structures, ships and storage tanks with excellent corrosion resistance. It can be applied by heavy duty airless spray equipment. It is also used as self primed coating for concrete as floor coating.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	Limited, Pastel shades only
<b>FINISH, DRY FILM</b>	Smooth / Semi-gloss
<b>VOLUME SOLIDS (ASTM D2697)</b>	100%
<b>SPECIFIC GRAVITY</b>	1.40 ± 0.05 (of mix)
<b>THEORETICAL SPREADING RANGE</b>	3.3 M <sup>2</sup> /LTR
<b>RECOMMENDED DFT RANGE (DRY FILM THICKNESS)</b>	300 Microns/Coat
<b>RECOMMENDED WFT RANGE (WET FILM THICKNESS)</b>	300 Microns/Coat
<b>FLASH POINT</b>	> 100°C
<b>CHEMICAL RESISTANCE</b>	Very good
<b>SOLVENT RESISTANCE</b>	Very good
<b>WATER RESISTANCE</b>	Excellent
<b>ABRASION RESISTANCE</b>	Very good

### 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>	3 – 4 hours
<b>*DRY TO RECOAT / OVERCOAT</b>	8 hours (minimum) – 72 hours (maximum)
<b>FULLY CURED</b>	7 days

\* With same generic type paint



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**ADVANTAGES**

<b>NATIONAL GUARD S.F.</b>	Solvent free, two pack system. Easy to handle, non-hazardous. The cured film has good resistance to fresh water, mineral oils, solvents and acid-alkali resistance. Excellent corrosion resistance, very good mechanical properties.
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**APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	For metals, it can be applied directly over intermediate / undercoat or primed substrate. Galvanized steel, aluminium and light metal alloys should be etched or wash primed before primer and undercoat. For concrete, it can be applied directly over primed concrete surface or concrete, after preparing the surface suitably.
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**APPLICATION DATA**

<b>APPLICATION METHOD</b>	Airless spray, Trowel, Roller or Brush (touch-up)
<b>CLEANING/THINNING</b>	National Epoxy Thinner
<b>THINNER (VOLUME)</b>	Ready to use
<b>CONV. SPRAY REQUIREMENTS</b>	Not applicable
<b>AIRLESS SPRAY REQUIREMENTS</b>	3000 psi
<b>NOZZLE SIZE</b>	0.025" – 0.030"
<b>MIXING RATIO (BY WEIGHT)</b>	Base : Hardener 5 : 1 (Mix thoroughly before use)
<b>POT LIFE @ 30°C (100 ml)</b>	15 – 20 minutes (reduced at higher temperature) Note: Material may gel at elevated temperature.

**SYSTEM**

<b>RECOMMENDED SYSTEM</b> To be applied on prepared surface.	No. of Coats x DFT (Microns)	
	Metal :	National Guard Epoxy Red Oxide Primer : 1 x 50
		National Guard S.F. (Colour) : 1 x 300
	Concret:	National Guard S.F. Clear (As a primer) : 1 x 150
		National Guard S.F. (Colour) : 1 x 300
		(OR)
	National Guard S.F. : 1 x 300	



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**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 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**

<b>STORAGE</b>	<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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