



**NATIONAL GUARD S.F. CLEAR**  
**PROTECTIVE COATINGS**

**TECHNICAL DATA SHEET**

**NATIONAL GUARD S.F. CLEAR**

<b>PRODUCT DESCRIPTION</b>	A two pack solvent-free amine cured high solid coating having good resistance to fresh water, mineral oils, chemicals, various acid and alkali solutions. It provides good impact and abrasion resistances. It has excellent adhesion on various substrates.
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<b>RECOMMENDED USES</b>	Lining for tanks containing chemical, sewage water etc. Self primed coating for concrete, as floor coating.
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**TECHNICAL DATA**

<b>COLOUR, DRY FILM</b>	Clear, Transparent
<b>FINISH, DRY FILM</b>	Smooth / Glossy
<b>VOLUME SOLIDS (ASTM D2697)</b>	100%
<b>SPECIFIC GRAVITY</b>	1.09 ± 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

**ADVANTAGES**

<b>NATIONAL GUARD S.F. CLEAR</b>	The fully cured film has good resistance to fresh water, mineral oil, chemicals, various acids and alkali solutions. It has good impact and abrasion resistances. It has excellent adhesion on various surfaces.
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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 application. For concrete, the floor should be cleaned thoroughly by an acid solution (10 part, Hydrochloric Acid by weight + 90 part, water by weight), and later on to be washed with plenty of water.
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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 2 : 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. : 1 x 150
		National Guard S.F. Clear : 1 x 150
	Concret:	National Guard S.F. Clear (As a primer): 1 x 150
	OR	
		National Guard Primer for Cement Clear : 1 x 40
	National Guard S.F. Clear : 1 x 300	

**ADDITIONAL DATA**

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

<p><b>SAFETY PRECAUTIONS</b></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><b>STORAGE</b></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.  
Issued: 0608

