



NATIONAL GUARD PW  
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

## NATIONAL GUARD PW

<b>PRODUCT DESCRIPTION</b>	A two pack solvent free amine cured modified epoxy coating for potable water tank. It can be applied by airless spray equipment on cementitious or metal surfaces. Fully cured film has excellent corrosion resistance and is suitable for immersion in sea water, fresh water and potable water.
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<b>RECOMMENDED USES</b>	Protective coating for cementitious and steel surfaces. Suitable coating for potable water tank.
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### TECHNICAL DATA

<b>COLOUR, DRY FILM</b>	White
<b>FINISH, DRY FILM</b>	Smooth / Glossy
<b>VOLUME SOLIDS (ASTM D2697)</b>	99 ± 1%
<b>SPECIFIC GRAVITY</b>	1.26 ± 0.05
<b>THEORETICAL SPREADING RANGE</b>	6.6 – 3.3 M <sup>2</sup> /LTR
<b>RECOMMENDED DFT RANGE (DRY FILM THICKNESS)</b>	150 – 300 Microns/Coat
<b>RECOMMENDED WFT RANGE (WET FILM THICKNESS)</b>	151 – 303 Microns/Coat
<b>FLASH POINT</b>	> 80°C
<b>FLEXIBILITY</b>	Good
<b>CHEMICAL RESISTANCE</b>	Excellent
<b>SOLVENT RESISTANCE</b>	Very good
<b>WATER RESISTANCE</b>	Good
<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>	5 – 6 hours
<b>DRY TO RECOAT / OVERCOAT</b>	16 hours (minimum) – 72 hours (maximum)
<b>FULLY CURED</b>	3 days



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**ADVANTAGES**

<b>NATIONAL GUARD PW</b>	Two component, self-levelling, high build epoxy coating. Fully cured film has excellent water resistance, corrosion resistance. Suitable for immersion in sea water, fresh water and potable water.
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**APPLICATION INSTRUCTION**

<b>SURFACE PREPARATION</b>	Steel	Oil and grease should be removed by solvent cleaning. Remove weld spatter and smooth weld seams and sharp edges as applicable. Abrasive blasting is required to obtain suitable roughness profile. Apply National Guard PW immediately after steel has been blasted.
	Repair	Corroded areas should be power tool cleaned to St.3 or Sa.2 or better. Existing systems should be dry and free from loose paint, salt, grease and other contaminants prior to over coating.
	Concrete	Remove porous and less coherent areas by blast cleaning or by using power tools such as chipping hammer. Remove all dust and debris prior to painting.

**APPLICATION DATA**

<b>APPLICATION METHOD</b>	Airless Spray	Brush
<b>CLEANING/THINNING</b>	National Epoxy Thinner	
<b>THINNER (VOLUME)</b>	5 – 10% (if required)	5%
<b>CONV. SPRAY REQUIREMENTS</b>	Not applicable	
<b>AIRLESS SPRAY REQUIREMENTS</b>	3000 psi	
<b>NOZZLE SIZE</b>	0.025"	
<b>MIXING RATIO (BY WEIGHT)</b>	Base : Hardener 5 : 1 (Mix thoroughly before use)	
<b>POT LIFE @ 30°C (100 ml)</b>	40 – 45 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)	
	National Guard PW (as primer)	: 1 x 100
	National Guard PW	: 2 x 150



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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.  
Issued: 0608