



**NATIONAL GUARD ZINC PHOSPHATE EPOXY SHOPPRIMER
PROTECTIVE COATINGS**

TECHNICAL DATA SHEET

NATIONAL GUARD ZINC PHOSPHATE EPOXY SHOPPRIMER

PRODUCT DESCRIPTION	National Guard Zinc Phosphate Epoxy Shopprimer is a two pack polyamide cured epoxy resin based primer for anti-corrosive paint systems for interior and exterior surfaces. It is a quick drying shopprimer having corrosion prevention properties and can be overcoated after a short interval. It can serve as a holding primer for renovation. It has excellent adhesion to properly cleaned surfaces.
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RECOMMENDED USES	Temporary protective coating for blast cleaned steel during storage and fabrication stages in industrial and marine environments.
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TECHNICAL DATA

COLOUR, DRY FILM	Grey
FINISH, DRY FILM	Smooth / Matt
VOLUME SOLIDS (ASTM D2697)	40 ± 2%
SPECIFIC GRAVITY	1.46 ± 0.05 (of mix)
THEORETICAL SPREADING RANGE	26.5 – 20 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	15 – 20 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	38 – 50 Microns/Coat
FLASH POINT	20°C
FLEXIBILITY	Good
ADHESION	Excellent

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	15 minutes
*DRY TO RECOAT / OVERCOAT	6 hours (minimum) – For maximum recoating interval, refer to our Technical service division.
FULLY CURED	7 days

*With same generic type paint.



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ADVANTAGES

NATIONAL GUARD ZINC PHOSPHATE EPOXY SHOPPRIMER	Good corrosion prevention properties, quick drying and short overcoating interval, serve as holding primer for erection period, excellent adhesion.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	Surface should be grit blasted to Sa 2.5-3, to achieve a suitable surface profile roughness, and then clean, dry and keep ready for shopprimer applications.
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APPLICATION DATA

APPLICATION METHOD	Airless Spray	Conventional Spray	Brush
CLEANING/THINNING	National Epoxy Thinner (thinner should be added after mixing the component)		
THINNER (VOLUME)	5 – 10%	10 – 15%	5-10%
CONV. SPRAY REQUIREMENTS	Atomizing Pressure : 40 psi		
AIRLESS SPRAY REQUIREMENTS	2200 psi		
NOZZLE SIZE	0.018” – 0.020”		
MIXING RATIO (BY VOLUME)	Base : Hardener 4 : 1 (Mix thoroughly, keep for 10 – 15 minutes)		
POT LIFE @ 30°C (100 ml)	6 hours (reduced at higher temperatures) Note: material may gel at elevated temperature.		

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	No. of Coats x DFT (Microns)	
	<u>As shopprimer</u>	
	National Guard Zinc Phosphate Epoxy Shopprimer :	1 x 15
	<u>Paint system</u>	
	National Guard Zinc Phosphate Epoxy Primer :	1 x 50
	National Guard Undercoat H.B.	: 1 x 125
National Guard H.B.	: 1 x 100	

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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