



NATIONAL ZINC PHOSPHATE PRIMER
PROTECTIVE COATINGS

TECHNICAL DATA SHEET

NATIONAL ZINC PHOSPHATE PRIMER

PRODUCT DESCRIPTION	Anti-corrosive primer based on Alkyd resin, with zinc phosphate pigment. The dry film is tough, hard and having moderate chemical resistance. It does not contain chromates.
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RECOMMENDED USES	Anti-corrosive primer for structural steel, tanks and pipelines in moderately corrosive atmosphere. Suitable for regular maintenance of industrial plants, workshops, as part of alkyd system in interior and exterior applications.
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TECHNICAL DATA

COLOUR, DRY FILM	Grey
FINISH, DRY FILM	Smooth / Matt
VOLUME SOLIDS (ASTM D2697)	46 ± 2%
SPECIFIC GRAVITY	1.50 ± 0.05
THEORETICAL SPREADING RANGE	11.5 – 9.2 M ² /LTR
RECOMMENDED DFT RANGE (DRY FILM THICKNESS)	40 – 50 Microns/Coat
RECOMMENDED WFT RANGE (WET FILM THICKNESS)	88 – 110 Microns/Coat
FLASH POINT	38°C
FLEXIBILITY	Good

DRYING TIME

Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time.)	
TOUCH DRY	30 – 45 minutes
DRY TO RECOAT/ OVERCOAT	12 hours
HARD DRY	24 hours

ADVANTAGES

NATIONAL ZINC PHOSPHATE PRIMER	The dry film is tough, hard and having moderate chemical resistance. It can be overcoated with suitable recommended system.
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APPLICATION INSTRUCTION

SURFACE PREPARATION	<u>New Steel:</u> All surfaces to be coated should be clean, dry and free from any contamination. Oil and grease should be removed by solvent cleaning as per SSPC-SP1. Abrasive blast cleaning to Sa 2.5 or mechanical cleaning using hand/power tool to minimum of St 2 standard should be done. <u>Repair/Maintenance:</u> Existing paints system should be dry and free from salt and other contaminants. Corroded and/or damaged areas should be blast cleaned to Sa 2 or power tool cleaned to St 3.
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APPLICATION DATA

APPLICATION METHOD	Airless Spray	Conventional Spray	Brush	Roller
CLEANING/THINNING	National G.P. Thinner			
THINNER (VOLUME)	5 – 10%	10 – 15%	5%	10%
CONV. SPRAY REQUIREMENTS	Atomizing Pressure : 50 psi			
AIRLESS SPRAY REQUIREMENTS	Pressure: 2000 – 2200 psi			
NOZZLE SIZE	0.018" – 0.020"			
MIXING RATIO (BY VOLUME)	Not applicable			
POT LIFE @ 30°C (100 ml)	Not applicable			

SYSTEM

RECOMMENDED SYSTEM To be applied on prepared surface.	No. of Coats x DFT (Microns)	
	National Zinc Phosphate Primer	: 1 x 40
	National Synthetic Undercoat	: 1 x 40
	National Synthetic Enamel Gloss I	: 2 x 35
	OR	
	National Synthetic Enamel Gloss II	: 2 x 35

ADDITIONAL DATA

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

SAFETY PRECAUTIONS	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. This as industrial product, contains flammable materials and should be kept away from ignition sources. Local safety regulations should be followed.
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STORAGE & HANDLING

STORAGE	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.
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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