



**TECHNICAL DATA SHEET**

**AMBER GUARD ZINC PHOSPHATE EPOXY PRIMER**

<b>PRODUCT DESCRIPTION</b>	Amber Guard Zinc Phosphate Epoxy Primer is a two pack polyamide cured epoxy resin based primer for protective coating system for steel. It has excellent anti-corrosive properties for atmospheric and immersed exposure conditions. Fully cured coating is resistant to abrasion, water and splash of mild chemicals.
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<b>RECOMMENDED USES</b>	Anti-corrosive primer for structural steel, petrochemical plants, tanks and equipments. It can be overcoated with Amber Polyurethane coatings for exterior applications.
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**TECHNICAL DATA**

<b>COLOUR, DRY FILM</b>	Grey
<b>FINISH, DRY FILM</b>	Smooth / Matt
<b>VOLUME SOLIDS (ASTM D2697)</b>	52 ± 2%
<b>SPECIFIC GRAVITY</b>	1.55 ± 0.05 (of mix)
<b>THEORETICAL SPREADING</b>	13.0 – 8.6 M2 /LTR
<b>RECOMMENDED DFT (DRY FILM)</b>	40 – 60 Microns/Coat
<b>RECOMMENDED WFT (WET FILM)</b>	75 – 115 Microns/Coat
<b>FLASH POINT</b>	25°C
<b>FLEXIBILITY</b>	Good
<b>CHEMICAL RESISTANCE</b>	Excellent
<b>WATER RESISTANCE</b>	Good
<b>ABRASION RESISTANCE</b>	Good



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### 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</b>	10 hours (minimum) – 7 days (maximum)
<b>HARD DRY</b>	7 days

### ADVANTAGES

<b>AMBER GUARD ZINC PHOSPHATE EPOXY PRIMER</b>	Excellent anti-corrosive properties. The fully cured dry film is resistant to abrasion, splash and various mild chemicals, resistant to water.
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### APPLICATION INSTRUCTION

<b>SURFACE PREPARATION</b>	Oil and grease should be removed by solvent cleaning. Sand blast to Sa 2.5, then clean & dry. Apply immediately Amber Guard Epoxy Red Oxide Primer after the steel has been blasted.
<b>REPAIR</b>	Corroded areas should be power tool cleaned to St3 or blast cleaned to Sa2 or better. Existing system should be dry and free from loose paint, salt, grease and other contaminants prior to overcoating.

### APPLICATION DATA

<b>APPLICATION METHOD</b>	Airless Spray	Conventional Spray	Brush
<b>CLEANING/THINNING</b>	Amber Epoxy Thinner		
<b>THINNER (VOLUME)</b>	5 – 10%	10 – 15%	5-10%
<b>CONV. SPRAY REQUIREMENTS</b>	Atomizing Pressure : 40 psi		
<b>AIRLESS SPRAY REQUIREMENTS</b>	2200 psi		
<b>NOZZLE SIZE</b>	0.018” – 0.020”		
<b>MIXING RATIO (BY VOLUME)</b>	Base : Hardener 4:1 (Mix thoroughly, keep for 10 – 15 minutes)		
<b>POT LIFE @ 30°C (100 ml)</b>	8 hours (reduced at higher temperature) Note: Material may gel elevated temperature		



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### SYSTEM

<b>RECOMMENDED SYSTEM</b> To be applied on prepared surface.	No. of Coats x DFT (Microns)	
	Amber Guard Zinc Phosphate Epoxy Primer	1 x 50
	Amber Guard Undercoat H.B.	1 x 125
	Amber Guard Topcoat	1 x 50
	(OR)	
	Amber Polyurethane Topcoat	1 x 40

### 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>	As a general rule, avoid skin and eye contact by wearing overalls, glove, goggles, and mask 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 mask. In the event of ingestion and eye contact, seek medical attention immediately. Painting must be carried out in wellventilated area. This 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.
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### STORAGE & HANDLING

<b>STORAGE</b>	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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