



TECHNICAL DATA SHEET

AMBER GUARD EPOXY ZINC CHROMATE PRIMER

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| PRODUCT DESCRIPTION | Amber Guard Epoxy Zinc Chromate Primer is a two pack polyamide cured epoxy resin based primer for steel structure and non-ferrous surfaces like galvanized steel, aluminium in industrial and marine environments. It has excellent adhesion and superior anticorrosive properties. |
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| RECOMMENDED USES | Anti-corrosive primer for steel structures and non-ferrous surfaces, like galvanized steel, aluminium in industrial and marine environments. It is also recommended for overcoating of zinc primed steel and for applications on light metal alloy surfaces. It can be overcoated with Amber Polyurethane for exterior applications. |
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TECHNICAL DATA

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| COLOUR, DRY FILM | Yellow |
| FINISH, DRY FILM | Smooth / Matt |
| VOLUME SOLIDS (ASTM D2697) | 52 ± 2% |
| SPECIFIC GRAVITY | 1.56 ± 0.05 (of mix) |
| THEORETICAL SPREADING | 13.0 – 10.4 M2 /LTR |
| RECOMMENDED DFT (DRY FILM) | 40 – 50 Microns/Coat |
| RECOMMENDED WFT (WET FILM) | 75 – 95 Microns/Coat |
| FLASH POINT | 25°C |
| FLEXIBILITY | Good |

DRYING TIME

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| Drying time @ 30°C (Temperature, humidity, air movement, film thickness and number of coats all affect the drying time). | |
| TOUCH DRY | 6 hours |
| DRY TO RECOAT | 10 hours (minimum) – 3 days (maximum) |
| FULLY CURED | 7 days |



TECHNICAL DATA SHEET

ADVANTAGES

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| AMBER GUARD EPOXY ZINC CHROMATE PRIMER | Anti-corrosive primer in industrial and marine environments. Suitable for direct applications on prepared non-ferrous metal surfaces. |
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APPLICATION INSTRUCTION

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| SURFACE PREPARATION | <p>Oil and grease should be removed by solvent cleaning. Sand blast to Sa 2.5 then clean and dry. Apply immediately Amber Guard Epoxy Zinc Chromate Primer after the steel has been blasted.</p> <p>Corroded areas should be power tool cleaned to St 3 or blast cleaned to Sa 2 or better. Existing system should be dry and free from loose paint, grease and other contaminants prior to overcoating.</p> <p>Aluminium: The surface should be clean, dry and grease-free. If any corrosion salts are present, they should be removed by lightly abrading. Before painting apply one coat of etch primer.</p> <p>Galvanized steel: The surface should be clean, dry and grease free. Any white zinc corrosion product should be removed by high pressure fresh water washing, or fresh water washing with scrubbing. Use etch primer to passivate the surface followed by recommended coating system.</p> |
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APPLICATION DATA

| APPLICATION METHOD | Airless Spray | Conventional Spray | Brush |
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| CLEANING/THINNING | Amber Epoxy Thinner | | |
| THINNER (VOLUME) | 5 – 10% | 10 – 15% | 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 15 – 20 minutes) | | |
| POT LIFE @ 30°C (100 ml) | 8 hours (reduced at higher temperature) Note: Material may gel at elevated temperature | | |



TECHNICAL DATA SHEET

SYSTEM

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

ADDITIONAL DATA

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

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| 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 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

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| 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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