

ENVIROPHOS 2300



Two Pack Water Based Zinc Phosphate Epoxy

Technical Data Sheet Number 195

PRODUCT DESCRIPTION	<p>A & I Coatings ENVIROPHOS 2300 is a water based, environmentally friendly two pack zinc phosphate primer for mild steel, hot dipped gal and zinc plated steel. This product exhibits excellent anti-corrosive properties, is fast drying and has very good resistance to abrasion and impact damage. E2300 commonly forms the primer or intermediate coat in medium to heavy duty coating specifications, in conjunction with an ENVIROTHANE topcoat.</p>				
USES & BENEFITS	<ul style="list-style-type: none"> • As a primer for mild and galvanized steel • As a suitable primer for acrylics, urethanes and fluoropolymers. • Marine & industrial environment • Structural steel 				
	<p><u>Benefits</u></p> <ol style="list-style-type: none"> 1. Excellent anti corrosive properties 2. Very good water resistance when fully cured 	<p><u>Limitations</u></p> <ol style="list-style-type: none"> 1. Limited UV resistance, must be top coated with a suitable topcoat for all external applications 2. It is extremely important that the temperature of the substrate is not less than 3° above the dewpoint 			
PHYSICAL PROPERTIES	Vehicle Type	Water borne epoxy			
Hardener	Aliphatic Polyamine Adduct				
Mixing Ratio	4:1 (Pack A: Pack B) by volume				
Pot Life	2 hours@25°C				
Finish	Matt				
Theoretical Coverage	5.7m ² per litre@75µm DFT (175µmWFT)				
Volume Solids	43% by volume				
Recommended DFT	75 - 100µm/coat				
Usual No. of Coats	1 – 2 coats				
Primer Required	No				
Colour	Natural Grey				
Pigmentation	Zinc Phosphate				
Product Weight	1.47Kg/Litre (Pack A), 1.03kg/L (Pack B)				
VOC Content	69g/Litre (APAS), 161g/Litre (US EPA)				
ENGINEERING DATA	Dry Heat Resistance	200°C			
	Salt Spray Resistance	Good			
	Durability	Very good. Must be top coated for exterior exposure			
CURING DATA	Substrate Temp.(°C)	Touch Dry	Dry to Handle	Full Cure	Recoat Min
	10 °C				7 hrs
	25 °C	1 hr		7 days	4 hrs
	40 °C				1.5 hrs

APPLICATION DATA	Mixing	Power mix Pack A first, then power mix A & B together thoroughly, and then add water if necessary to thin and mix again.
	Application	Air spray, airless, roller and brush.
	Thinning	May be thinned with water up to 10% if necessary. For high build, on vertical applications, use the minimum amount of thinners or none at all to avoid sagging.
	Cleaning	Water
	Typical Specification	<u>Blast Cleaned Mild Steel:</u> 1 coat Envirophos 2300 to 75µm DFT 1 coat Enviroset 2100 MIOX to 100-150µm DFT 1 coat Enviroflon 8480 to 60µm DFT
SURFACE PREPARATION	Steel	Degrease according to SSPC SP1 solvent cleaning. Thoroughly water blast to remove all salt deposits. Before blast cleaning remove all weld spatter and radius sharp edges and welds. Blast clean to specified / recommended AS1627.4 class 2.5 minimum for best results.
WORK STOPPAGES	General	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with A & I Coatings recommended cleaner. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.
	Clean Up	Clean all equipment after use with A & I Coatings recommended cleaner. It is good work practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time (including delays).
PACKING & STORAGE	Packing	5L and 20L kits
	Storage	12 months if stored in sealed containers away from heat and moisture. Subject to re-inspection thereafter.
HEALTH & SAFETY	All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for Envirophos 2300. Users should familiarise themselves with all the safety aspects of the product prior to usage. Please ensure the current Technical Data Sheet is consulted prior to specification or application of A & I Coatings products. If the surface intended to be painted differs from the specification, please consult the A & I Coatings Technical team on 1800 819 585.	

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation. Note: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on onsite conditions, such as volume of material mixed, ambient and substrate temperatures, weather and ventilation. **DISCLAIMER** Since the use and application of this product is beyond our control, we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty. For additional information, phone our Customer Service Centre on 1800 819 585, or e-mail helpdesk@aicoatings.com Visit our website for more products: www.aicoatings.com

May 2019 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED