

Two Pack Water Based Zinc Phosphate Epoxy

ENVIROPHOS 2300

PRODUCT DESCRIPTION - 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.

TYPICAL APPLICATIONS

- As a primer for mild and galvanized steel
- As a suitable primer for acrylics, urethanes and fluoropolymers.
- Marine & industrial environment
- Structural steel.

TECHNICAL INFORMATION

Vehicle Type	: Water borne epoxy		
Hardener Type	: Aliphatic Polyamine Adduct		
Pigmentation	: Zinc Phosphate		
Mixing Ratio	: 4:1		
Pot life	: 2 hours@25°C.		
Finish	: Matt		
Colour	: Natural Grey		
Dry time	: At 25 °C tack dry 1 hour		
(minimum)	Full cure 7 days		
Recoat Time	: 10°C	: 23°C	: 40°C
(minimum)	: 7 Hrs	: 4 Hrs	: 1.5 Hrs
Primer required	: No		
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		
Thinning and cleaning	: 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. Use water for clean up.		
Heat Resistance	: Up to 200°C (dry heat).		
Durability	: Very good. Must be top coated for exterior exposure.		
Product weight	: 1.47Kg/Litre (Pack A), 1.03kg/L (Pack B)		
VOC Content (A+B)	: 69g/Litre (APAS), 161g/Litre (US EPA)		

MERITS

1. Excellent anti corrosive properties
2. Very good water resistance when fully cured

LIMITATIONS

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.

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.
- Cleaning** : Water
- Equipment** : Air spray, airless, roller and brush.
- Typical Specification** : Blast Cleaned Mild Steel.
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 : 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 AND 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 site 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

August 2013 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.