# Polyset

### Protective Coatings for **PERFORMANCE**

## **Eco-Zinc<sup>™</sup>**

Eco-Zinc<sup>TM</sup> is a state-of-the art, 100% WaterBorne High Ratio Zinc Silicate engineered specifically as a primer on steel surfaces for use with all major Polyset high performance topcoat products.

Eco-Zinc<sup>TM</sup> is built upon NASAs original formulation. When applied at the recommended dry film thickness of 3.0 - 4.0 mil (51– 76  $\mu$ m), Eco-Zinc<sup>TM</sup> provides a chemically bonded surface ready for top coating in as little as 2 hours under normal conditions.

#### Uses

#### Key Features

- High ratio potassium silicate (5.3:1)
- Excellent adhesion to steel (chemical bond), will not undercut
- Waterborne/Zero VOC
- Self cure (air-dry), heat cure if desired
- High Temperature resistance (750°F)
- Meets or exceeds 5000 hour salt fog spray without deterioration (ASTM B117)
- Cathodic protection of steel, even in damaged areas
- Excellent primer system for polysiloxane, polyaspartic, polyurea, acrylic, mastic epoxy, and non-skid top coat systems

Superb corrosion resistance for severe environments, such as:

- Marine (ships, off-shore rigs, buoys, etc.)
- Bridges
- Pipelines (buried and above ground)
- Hydro (water control gates, turbines, trash racks, etc)
- Railcars
- Storage Tanks

#### Surface Preparation

All surfaces to be coated prepared to SSPC-SP10, Near-White finish with a minimum of 1.0 mil profile.

#### FOR APPLICATION INSTRUCTIONS & EQUIPMENT, PLEASE CONSULT YOUR POLYSET TECHNICAL REPRESENTATIVE.

#### Mixing

While mixing, add Part B (Metallic Zinc Powder) to Part A (Silicate) with constant stirring. **Do NOT ADD PART A TO PART B.** After mixing, pour the product through a 40-mesh screen into a pressure pot or second pail. Continually agitate while applying mixed materials.

Product Specifications: Part A: Viscosity (cPs); ASTM Appearance: Part B:	Clear Liquid Fine Metallic Zinc Powder
Mix Ratio:	(ASTM D520)
Parts by Weight:	1.00 Part A : 2.55 Part B
Parts by Volume:	2.33 Part A : 1.00 Part B
Mixed Properties:	
Viscosity (cPs):	120 ± 20
Color:	Gray/Matte
Density (Lbs./Gal.):	25.0 ± 0.2
Density (kg/L):	3.00 ± 0.1
Solids in Mixed Solut	ion (wt. %): 80 ± 2
Solids in Mixed Solut	ion (vol. %): 68 ± 2
Zinc in Dry Film (wt. S	%): 91 ± 2
Zinc in Dry Film (vol.	•
Estimated Coverage:	1090 ft²/ Gal. @ 1.0 mil DFT
Pot Life:	6–8 Hrs @ 70°F
Recommended Dry Fi	
VOC Content:	0
Drying Time:	
Set to touch:	15–30 Minutes
Initial Cure:	2–3 Hours
Shelf Life:	1 year in the original, unopened containers
Storage:	Store between 60–95°F (16–35°C)

#### FOR PROFESSIONAL USE ONLY

Impervious gloves, protective clothing, & splash resistant goggles are recommended. Direct contact with skin should be avoided as it may cause irritation. Harmful if ingested. Keep from open flames.

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