

### Protective Coatings for PERFORMANCE

# WB HRZS<sup>®</sup> Primer

WB HRZS<sup>®</sup> Primer 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.

WB HRZS<sup>®</sup> Primer is built upon NASAs original formulation. When applied at the recommended dry film thickness of 3.0 - 4.0 mil (51– 76 µm), WB HRZS<sup>®</sup> Primer provides a chemically bonded surface ready for top coating in as little as 2 hours under normal conditions.

#### **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

#### Uses

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:	(All readings taken at 25°C, unless noted) Liquid Silicate Binder
Viscosity (cPs); ASTM	•
Appearance:	Clear Liquid
Part B:	Fine Metallic Zinc Powder
	(ASTM D520)
Mix Ratio:	
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 Soluti	on (wt. %): 80 ± 2
Solids in Mixed Soluti	on (vol. %): 68 ± 2
Zinc in Dry Film (wt. %	-
Zinc in Dry Film (vol. 9	•
Estimated Coverage:	1090 ft²/ Gal. @ 1.0 mil DFT
Pot Life:	6–8 Hrs @ 70°F
Recommended Dry Fil	<b>m Thickness</b> : 3.0–4.0 mils DFT
VOC Content:	0
Drying Time:	
Set to touch:	15-30 Minutes
Initial Cure:	2–3 Hours
Shelf Life:	I 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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## Technical Bulletin