

## Ply-Guard AS (Ultra Flex)

## Technical Bulletin

Ply-Guard AS (Ultra Flex) is a new-generation, high-gloss, fast curing, two-component aliphatic polyaspartic polyurea topcoat that provides superior flexibility in addition to superior color and gloss retention. In addition, Ply-Guard AS (Ultra Flex) meets or exceeds SSPC Paint Specifications 36, 38, & 39 Level 3 weathering performance requirements. Ply-Guard AS (Ultra Flex) can achieve a 5 to 15 mils DFT coating that is free of bubbles or pinholes as part of an effective two-coat system over the recommended WB HRZS® Primer (3-4 mils DFT). Ply-Guard AS (Ultra Flex) is ideal for applications requiring fast re-coat & turn-around times at low temperatures on complex steel structures.

### Key Features

- Fast cure & re-coat – Dry-to-handle in 40 minutes @ 77°F (25°C) and 50% relative humidity
- Low-Temperature cure possible – Minimum cure temperature as low as -20°F (-29°C)
- UV-resistant; optical clarity of cleaner sealer/finish
- Insensitive to high humidity – Relative Humidity to 98% possible during application
- No dew point temperature differentials
- Excellent Direct-To-Metal (DTM) coating – Passing 2,000 hours testing in a salt-fog corrosion chamber
- Exceptional corrosion performance as a topcoat over an Inorganic Zinc base coat – Passing 13,000 hours in a salt-fog corrosion chamber

### Uses

- Intended for use as a topcoat over steel that has been properly primed with Polyset's WB HRZS® Primer
- Ideal for applications requiring fast re-coat and turn around time for the following, demanding application areas:
  - Steel Structures
  - Tanks
  - Industrial Maintenance Equipment
  - Bridges
  - Marine Applications, Off-Shore Rigs, and Platforms
  - Fabrication Shops
  - Transportation Vehicles and Equipment
  - OEM Product Finishing

### Product Benefits

- Excellent color and gloss retention, low dirt pick-up and ease of graffiti removal
- Superior flexibility for demanding applications
- High resistance to salt corrosion & chemical attack, abrasion, and impact
- Available in multiple colors and finishes

### Surface Preparation

Surface must be clean, cool, dry, and free of grease, scaling paint, special surface hardeners, curing agent or other contaminants.

### Mix Ratio

**Parts by Volume:** 1.0 part Base : 1.0 part Catalyst

### Product Data

*(All readings taken at 25°C, unless noted)*

**VOC Content (Lbs./gal.):** 2.0

**VOC Content (grams/Liter):** 240

*Also available in a Zero VOC formula*

**Flash Point:** 102°F (39°C)

**Type of Material:** Aliphatic Polyaspartic Polyurea

**Color:** Available in all Standard Colors

**Finish:** High-Gloss or Clear High-Gloss

**Volume Solids (%):** 72

**Theoretical Estimated Coverage (ft<sup>2</sup>/gal.):** 1155 @ 1 mil DFT

**Recommended Film Thickness (mils/coat):** 2–8, as specified

**Number of Coats:** 1 coat over WB HRZS® Primer

1 coat for properly prepared DTM applications

**Method of Application:** Spray, Brush, or Roll

**Thinner & Clean-Up Solvent:** #68 Thinner

**Pot Life:** Approximately 30 minutes @ 77°F (25°C)

### Drying Time

**Dry Hard Time:** 40 minutes @ 77°F (25°C) & 50% RH  
*Increased film thickness will take longer. Do not exceed 48 hours between coats.*

**Shelf Life:** 1 year in the original, unopened containers

**Storage:** Store between 40–95°F (4–35°C)  
Store in a dry, covered area away from direct sunlight.

**FOR ADDITIONAL APPLICATION & EQUIPMENT RECOMMENDATIONS,  
PLEASE CONSULT YOUR POLYSET TECHNICAL REPRESENTATIVE.**

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