

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 coating 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

Concrete Surfaces

- Commercial/Industrial Flooring – Three-coat system consisting of self-priming color primer/sealer followed by clear “bed” coat for accepting and wetting decorative flake chips (or other decorative media), followed by clear sealer/finish coat
- Ideal for applications requiring fast re-coat and turn around time for the following, demanding application areas:
 - Steel Structures
 - Tanks
 - Bridges
 - Marine (ships, offshore rigs, barges, etc.)
 - Industrial Maintenance Equipment
 - 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 (ft²/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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