

Protective Coatings for PERFORMANCE

Ply-Guard AS (0 VOC)

Ply-Guard AS (0 VOC) is a fast-curing, two-component polyaspartic (aliphatic polyurea) coating system. Ply-Guard AS (0 VOC) exhibits superior color and gloss retention, excellent abrasion resistance, good flexibility, and can be applied directly to properly prepared concrete or metal surfaces. In addition, Ply-Guard AS (0 VOC) has very good corrosion, chemical, and UV resistance, and can achieve a uniform coating thickness of 2-8 mils DFT per coat that is free of bubbles and pinholes.

Key Features

- 0 VOC
- Fast-curing (40 minutes @ 77°F / 25°C)
- Low-Temperature cure (as low as −30°F / -34°C)
- Recoat time: 1 hour
- Walk-on Time: 1-2 hours
- · Self-priming, excellent penetrating and bond strength
- Excellent abrasion, impact, and wear resistance
- · Excellent color and gloss retention
- UV-resistant; optical clarity of clear sealer/finish
- Can add micro media agents to improve slip reduction
- Meets FDA/CFSAN, US Food Code, Physical Facilities criteria as outlined in 6.101.11 Surface Characteristics USDA acceptable
- · Excellent resistance to chemicals and stains
- Skydrol resistant
- Random/incidental heat contact: tolerant to 300°F
- Low solvent odor
- Excellent Direct-To-Metal (DTM) coating Passing 2,000 hours testing in salt-fog corrosion chamber (ASTM B117)
- Exceptional corrosion performance as a topcoat over Polyset WB HRZS® Primer on steel surfaces — Passing 13,000 hours in salt-fog corrosion chamber (ASTM B117)

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
- Final clear sealer/finish over decorative concrete surfaces such as acid, color or dye stained, semi-polished concrete, polymer-modified cementitious overlayments, or seamless multi-build epoxy/color quartz flooring
- High foot traffic and vehicle/material-handling equipment areas
- UV-resistant sealer/finish coat over safety surfacing systems, outdoor running tracks, swimming pools, and patios

Technical Bulletin

Steel Surfaces

- Storage Tanks
- Bridges
- Marine (ships, offshore rigs, barges, etc.)
- Railcars
- Pipelines

Surface Preparation

<u>Concrete</u>: Recommended surface profile is SP-2, Reference ICRI Technical Guideline No. 03732. This is best achieved with mechanical grinding machines using diamond heads achieving a final 50 to 120-grit profile.

<u>Direct-To-Metal</u>: All steel surfaces should be prepared to SSPC-SP10, Near-White finish with a minimum of 1.0 mil profile.

Please consult your Polyset Technical Representative for further recommendations.

Mix Ratio

Parts by Volume: 1.0 part Base: 1.0 part Catalyst **Product Data** (All readings taken at 77°F/25°C, unless noted) VOC Content (Lbs./gal.): 0 VOC Content (grams/Liter): 0 102°F Flash Point: Polyaspartic (Aliphatic Polyurea) Type of Material: 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 mils DFT
Method of Application: Spray, Brush, or Roll
Thinner & Clean-Up Solvent: Xylol or MEK

Pot Life: Approximately 30 minutes @ 77°F / 25°C

Drying 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

Store in a dry, covered area away from direct sunlight.

Store between 40-100°F

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

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