

Ply-Guard AS

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

Key Features

- Low-temperature cure (as low as 0°F / -34°C)
- 0 VOC (with exempt solvent)
- Recoat time: 8-10 hours (max. 16 hours)
- Walk-on time: 4 hours
- Drive-on time: 48 hours
- Self-priming, excellent penetration 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
- Excellent resistance to chemicals and stains
- Skydrol resistant
- Random/incidental heat contact: tolerant to 300°F
- Available in gloss finish

Uses

Concrete Surfaces

- Commercial/Industrial Flooring - Two-coat system consisting of self-priming color primer/sealer or “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

Steel Surfaces

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

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Technical Bulletin

Surface Preparation

Concrete: 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.

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

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

Type of Material: Polyaspartic (Aliphatic Polyurea)

Color: Clear with Standard Color Packs

Finish: Gloss

Volume Solids (%): 72

Adhesion to Concrete (psi): >500

Abrasion Resistance (Wear Index), (mg) 14

(ASTM D4060 | Wheel CS-17)

Film Hardness, Gouge (ASTM D3363): 3H

Film Hardness, Scratch (ASTM D3363): HB

Recommended Coverage Rate(ft²/gal.): 185-200

Method of Application: Spray, Brush, or Roll

Thinner & Clean-Up Solvent: Acetone, Xylene or MEK

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

Drying Time 90 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

Store in a dry, covered area away from direct sunlight

Pigment : When pigmenting, use 1 Polyset Universal Pigment Pack per 2 gallons of mixed Ply-Guard AS

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