Ply-Guard AS

Technical Bulletin

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 4-8 mils DFT per coat that is free of bubbles and pinholes.

Key Features

- Fast-curing (60 minutes @ 77°F / 25°C)
- Low-temperature cure (as low as 0°F / -34°C)
- 0 VOC (with exempt solvent)
- Recoat time: 90 Mins
- Walk-on Time: 2—3 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

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
Flash Point:	39°F (4°C)
Type of Material:	Polyaspartic (Aliphatic Polyurea)
Color:	Clear with Standard Color Packs
Finish:	Gloss
Volume Solids (%):	72
Theoretical Estimated Coverage (ft²/gal.):	1155 @ 1 mil DFT
Recommended Film Thickness (mils/coat):	4—8 mils DFT
Method of Application:	Spray, Brush, or Roll
Thinner & Clean-Up Solvent:	Xylene or MEK
Pot Life:	Approximately 30 minutes @ 77°F / 25°C
Drying Time	60 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

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

Lab Reference: PCX-44-54-31D