

Ply-Guard AS (High Solids)

Ply-Guard AS (High Solids) is a fast-curing, two-component, high solids polyaspartic (aliphatic polyurea) coating system. Designed for use as a top coat over full-broadcast flake and aggregate floors, Ply-Guard AS (High Solids) exhibits superior color and gloss retention, excellent abrasion resistance, good flexibility, and can be applied by sprayer or rollers directly to properly prepared concrete. In addition, Ply-Guard AS (High Solids) has very good corrosion, chemical, and UV resistance, and can achieve a uniform coating thickness of 6 mils WFT per coat.

Key Features

- Low-temperature cure (as low as 0°F / -17.8°C)
- Recoat time: 8—10 hours (max. 16)
- Walk-on time: 4 hours
- Drive-on time: 48 hours
- 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
- Low solvent odor

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 overlays, 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

Please contact your Polyset technical representative.

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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.

Mix Ratio

Parts by Volume: 1.0 part Resin : 1.0 part Hardener

Product Data (All readings taken at 77°F/25°C, unless noted)

VOC Content (Lbs./gal.): 1.8

VOC Content (grams/Liter): 216

Type of Material: Polyaspartic (Aliphatic Polyurea)

Color: Available in all Standard Colors

Finish: High-Gloss or Clear-High Gloss

Volume Solids (%): 90

Recommended Coverage Rate (ft²/gal.): 255—270

Method of Application: Spray, Brush, or Roll

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

Pot Life: Approximately 35 minutes @ 77°F / 25°C

Drying Time: 2—3 hours @ 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—100°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 (High Solids)

Please consult your Polyset Technical Representative for additional application and equipment recommendations.