

Ply-Guard EP

Ply-Guard EP is a two-component, 100% solids epoxy resin system used in flooring applications including high build coatings and aggregate-filled flooring. Ply-Guard EP cures blush-free and provides a superior balance of physical strength, flexibility, and chemical resistance. Its outstanding clarity makes it an ideal coating for use over color quartz aggregate and decorative architectural concrete.

Compared to competitive products, Ply-Guard EP has a considerably lower viscosity. This advantage provides an improved handling at cooler temperatures, exceptional troweling characteristics, and allows for the addition of fine silica fillers for easy application of “slurry” type floors. It is recommended to use Ply-Guard EP when the concrete substrate is at or above 60°F (15.5°C) and can achieve a uniform coating thickness of 10 mils WFT per coat.

The versatility of Ply-Guard EP makes it an ideal primer, finish coat, or aggregate binder in a multiple flooring applications including:

- Manufacturing Facilities
- Warehouses
- Correctional Facilities
- Loading Docks

Product Data

Mix Ratio, Parts by Volume:	2:1
Product Data (All readings taken at 77° F / 25° C unless noted)	
Solids Content, %:	100
Volatile Organic Compounds (VOC), gr./lt.:	0
Mixed Viscosity, Ply-Guard EP Clear, cps:	1,000
Recommended Coverage Rate (ft²/gal.):	145-160
Pot Life, Regular Cure, min (approximately):	20-30

*Pot life is reduced by increases in mass and/or temperature

Cure Time @ 77°F (25°C)*

Recoat Window, Hours	16-24
Walk on Time, Hours	16
Drive on Time, Hours	72

*Cure times are influenced by both ambient air temperature and the concrete substrate temperature.

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Technical Bulletin

Colors & Limitations

- Standard Colors, Plus Black, White, and Clear
- Must be Applied to a Clean, Dry Surface
- Exterior Pigmented Applications will Show Chalking
- Should be Applied with Aggregate Fillers in Flooring Applications where Impact or Mechanical Abuse is Anticipated

Typical Properties at 77°F (25°C)		
Tensile Strength	ASTM D638	6,230 psi
Tensile Elongation	ASTM D638	11%
Hardness, Shore D	ASTM D2240	70—75
Adhesion to Concrete	ASTM D7234	>500 psi
Flammability when Bonded to Concrete	ASTM D635	Self-Extinguishing
Coefficient of Friction, Static Wet, with Aggregate	ANSI B101.1	>0.45 (Inclines) >0.42 (Level)
Coefficient of Friction, Dynamic Wet, with Aggregate	ANSI B101.3	>0.45 (Inclines) >0.42 (Level)
Moisture Vapor Transmission (Maximum)*	ASTM F1869	3 lbs/ 24 HR/ 1,000 Sq Ft
Concrete Relative Humidity Moisture (Maximum)*	ASTM F2170	75% RH

*If the numbers exceed the product’s limitations, consult Polyset product offering.