

Technical Data Sheet

U.S. Resin Supply 1309 Coffeen Ave, Suite 16257, Sheridan, Wyoming, 82801

Polystar Slow 85

Description:

Polystar Slow 85 is a tough, high-solids, low-odor two-component floor coating system. This advanced formula uses a simple 1:1 mix ratio by volume (resin to catalyst), offering excellent UV and chemical resistance. Designed for superior open time and workability, it's ideal in warm or humid climates where longer working time is required.

Typical Applications:

- Retail and Commercial Flooring
- Garage and Showroom Floors
- High-Traffic Spaces
- Wood Floors and Concrete Countertops (approved)



Surface Preparation & Priming:

1. Mechanically grind concrete to CSP-3 profile
2. Vacuum dust and clean with denatured alcohol
3. If moisture is present, apply Moisture Vapor Barrier 100% solids epoxy primer at 150–180 sq. ft./gal

Mixing Instructions:

- Mix 1 part A to 1 part B by volume
- Mechanically mix for 2 minutes
- Pour directly onto the floor immediately after mixing
- Use spiked shoes during application

Application Instructions:

1. Pour mixed material in 12" ribbons
2. Spread with 5–7 mil notched squeegee
3. Back-roll with 3/16" premium lint-free roller while wearing spiked shoes



Coverage Rates:

- Primer Coat (porous concrete): 150–200 sq. ft./gal
- Basecoat: 160–180 sq. ft./gal
- Clear Finish Coat: 165 sq. ft./gal
- Application Temp: 45–90°F

Broadcasting Vinyl Chips:

- Apply basecoat at 160–180 sq. ft./gal
- Chip Use per 250 sq. ft.:
 - Light: 1 lb
 - Medium: 4 lbs
 - Full Coverage: 25 lbs
- Let basecoat cure 2–4 hrs
- Scrape and vacuum chips multiple times
- Apply clear Polystar Slow 85 finish coat with magic trowel, then back-roll

Dry Time & Recoat:

Tack-Free: 12 hours

Recoat: 24 hours

Note: Lightly sand surface and wipe with alcohol or acetone before recoating.

Exterior Applications:

Recommended for exterior use. Will not amber under UV exposure.

Physical Properties:

Property	Test Method	Result
Viscosity (Mixed)	Brookfield	2800 cps
Solids by Weight	ASTM D2369	85%
Shore-D Hardness	ASTM D2240	65
Compressive Strength	ASTM D695	5,000 psi
Adhesion to Concrete	ASTM D4541	700 psi
Tensile Strength & Elongation	ASTM D638	3950 psi @ 30%
Koenig Hardness	ASTM D4366	115
Abrasion Resistance	ASTM D4060	7 mg loss
Coefficient of Friction	ASTM 2047	< 0.60
VOC	-	< 100 g/L

Chemical Resistance (ASTM D-1308):

Y=Resistant, N=Not Resistant, Stain = May Stain

Acetic Acid (Y), Acetone (Y), Ammonia 30% (Y), Anti-Freeze (Y), Animal Urine (Y), Brake Fluid (Y), Chlorine (Y), Chromic Acid 10% (Y), Gasoline (Y), Hydraulic Fluid (N), Hydrochloric Acid 35% (N), Hydrofluoric Acid (N), Hydrogen Peroxide (Stain), Methyl Ethyl Ketone (Y), Methanol (Y), Methyl Chloride (Y), Mineral Spirits (Y), Motor Oil (Y), Mustard (Y), Nitric Acid (N), Orange Juice (Y), Phosphoric Acid (Y), Silver Nitrate (Y), Skydrol (Y), Sodium Hydroxide (Y), Sodium Hypochlorite (Y), Sulfuric Acid 10% (Y), Windshield Wiper Fluid (Y)



Available Kit Sizes:

- 2 Gallon Kit
- 10 Gallon Kit

Handling, Storage & Cleanup:

- Use gloves and eyeprotection
- Store in cool, dry location — do not freeze
- Clean tools with xylene
- Follow federal, state, and local disposal regulations

Regulatory / LEED:

- VOC Compliant (under 100 g/L)
- Check local VOC limits (U.S./Canada)
- LEED Contribution Eligible

Warranty:

Product warranty covers materials only if proven defective. No warranty on labor or application.

