

# POLY-80

## Two-Component Polyaspartic Aliphatic Polyurea Utilizing Nanotechnology

### PRODUCT DESCRIPTION

Poly-80 is a new, stand above all, two-component Polyaspartic Aliphatic Polyurea utilizing innovative proprietary Nanotechnology. It provides a high gloss clear coating. It's extremely quick curing time provides unmatched labor saving capabilities above epoxies and polyurethanes. Poly-80 can be used for most types of interior applications over properly prepared surfaces. It's superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. Poly-80 yields chemical splash and spill resistance and hot tire pick-up resistance much like it's epoxy counterpart. Poly-80 can be used easily in conjunction with quartz, chip, and rubberized aggregate systems.

### BENEFITS/FEATURES

- ◆ Provides ultimate abrasion, impact and wear resistance far exceeding many other applications.
  - ◆ Entire application, in most cases, can be accomplished in just one day.
  - ◆ Its excellent penetrating and bonding capabilities provide many years of durability.
- ◆ Highly economical considering the days of labor that can be saved by using a one day application.

### RECOMMENDED APPLICATIONS

**Poly-80** is recommended for use on interior concrete floors and other cementitious surfaces where a high gloss chemically cured coating is recommended.

### TECHNICAL INFORMATION

Solids.....	80%	Wet Appearance.....	Clear
Pot Life.....	15-20 minutes	Dry Appearance.....	Clear and Very High Gloss
Re-Coat Time.....	2-3 hours	VOC Content.....	<400 g/l
Foot Traffic.....	3-4 hours	Blush Resistance.....	Excellent
Wheel Traffic.....	24 hours (recommended)	Solvent Resistance.....	Excellent
Application Temp.....	40°F - 85°F	Concrete Adhesion.....	Excellent

Meets USDA/CFSAN, U.S. Food Code, physical facilities criteria as outlined in 6.100.11 Surface Characteristics USDA acceptable. Not intended for 21 CFR food contact.

\*\*\*Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

### PROPERTY PROFILE

Tensile Strength: ASTM D 638: 4,500 to 5,000 psi	Falling Sand Abrasion Resistance ASTM D 968:
Mandrel Bend ASTM D 522: Passes, no cracking, 1/8" mandrel bend	Clear...30 liters sand/ 1 dry mil

### APPROXIMATE COVERAGE RATES

Theoretical Coverage @ 80% Solids (Volume) per gallon

DFT.....	1,283 ft. @ 1 mils	DFT.....	320 ft. @ 4 mils
DFT.....	641 ft. @ 2 mils	DFT.....	257 ft. @ 5 mils
DFT.....	428 ft. @ 3 mils	DFT.....	213 ft. @ 6 mils

### SHELF LIFE

**Poly-80** has a shelf life of up to 12 months in it's original, sealed, unopened containers.

### PACKAGING

**Poly-80** is packaged in two quart, two gallon, and ten gallon kits.



### Concrete Floor Supply

13024 2nd Street. Grandview, MO 64030  
Phone: (816) 599-2319  
Concretefloorsupply.com

## INSTRUCTIONS FOR USE

**SURFACE PREPARATION:** The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding method should be performed to an approximate 50-100 grit profile to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732. If mechanical means of preparation are not suitable, it is recommended to prepare the surface with a muriatic acid solution of 1 pt. acid to 4 pts. water. Note, if using Super Blue as preparation method, the final rinse should contain a neutralizing agent such as ammonia or baking soda and water. Priming the floor with S&P 40 would be recommended if mechanical preparation is not available.

**MIXING:** Proper mixing is pertinent to application success. In equal parts (1:1), mix Part A and Part B using a clean, dry working pot (mixing container). Stir contents approximately 30-60 seconds. Avoid over-mixing or creating a vortex which could introduce moisture content to the mixture. No induction time is required prior to use, nor after mixing. If integrating anti-skid media agents, only do so after Parts A & B have been thoroughly mixed.

**POT LIFE:** Expected workable pot life after mixing Part A and Part B is approximately 25-30 minutes at a common temperature range of 70 F -80 F at roughly 50% relative humidity. Please note that higher temperatures and high percentages of humidity will shorten pot life, as colder temperatures and lower percentages of humidity will extend the coatings pot life.

**APPLICATION INSTRUCTIONS:** Application of **Poly-80** should be completed using a 3/8" synthetic nap, phenolic core roller, or a lambs wool cover for pigmented, stained floors, or media coats. Use a foam squeegee and back roll with the roller over media floors (quartz or chips). It is recommended to use only 18" wide squeegees and rollers. If considering using airless application method, consult the manufacturer prior to application.

## CLEAN-UP

Use Xylene. Dispose of containers in accordance with local and federal regulations.

## PRODUCT REMOVAL

Dried, cured polyaspartic may be removed by using a diamond grinding method, sandblasting method or similar mechanical action. If chemical stripping is desired use [Concretefloorsupply.com](http://Concretefloorsupply.com) "Snot" coatings stripper.

## PRECAUTIONS AND LIMITATIONS

- ▶ **Poly-80** will not freeze during storage, however, allow temperature to rise to 50 degrees F prior to application.
- ▶ All HVAC ventilation ducts should be somehow blocked prior to application so solvents fumes are not distributed.
- ▶ If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- ▶ Keep away from open flames. **Poly-80** is flammable and is susceptible to ignition.
- ▶ It is not recommended to apply **Poly-80** any floor without recommended preparation.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ **Poly-80** was designed for interior applications only.
- ▶ Please be aware that this product when cured may be slippery when wet.
- ▶ **Poly-80** has resistance to many chemicals, however testing chemical resistance is always recommended.
- ▶ It is not recommended to thin **Poly-80**. It is a two component system which must be blended exact to specifications.

## SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 816-599-2319



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