



## POLY CLEAR 80 & 100

### 80% OR 100% SOLIDS - POLYASPARTIC ALIPHATIC POLYUREA TECHNICAL DATA & APPLICATION INSTRUCTION

#### PRODUCT DESCRIPTION

**Poly Clear** is a two-component Polyaspartic Aliphatic Polyurea utilizing innovative proprietary nanotechnology. Available in 80% and 100% Solids, it provides a high gloss, clear coating. It's extremely quick curing time provides unmatched labor saving capabilities above epoxies and polyurethanes. **Poly Clear** can be used for most types of interior and exterior applications over properly prepared surfaces. It's superior penetration and bonding strength can provide years of abrasion, impact and wear resistance. **Poly Clear** provides chemical (splash & spill) resistance and hot tire pick-up resistance. **Poly Clear** can be used in conjunction with quartz, flake and rubberized aggregate systems.

#### BENEFITS/FEATURES

- Can be tinted, pigmented
- Excellent long term wear
- Quick turnaround time
- Interior or Exterior use - UV Stable
- Labor saving
- Excellent abrasion resistance
- Superior penetration and adhesion
- Excellent for use with Flake
- VOC Compliant in most of U.S. and Canada

#### RECOMMENDED APPLICATIONS

- Garages
- Interior or exterior
- Auto Service Centers
- Many other concrete floors where a fast curing, high-performance, high-gloss coating is specified
- Laboratories
- Cafeterias

#### TECHNICAL INFORMATION

Solids.....	80-100%	Wet Appearance.....	Clear (may show slight haze)
Pot Life (80%).....	25-30 min	Dry Appearance.....	Clear and High Gloss
Pot Life (100%).....	20-25 min	VOC Content (80%).....	<400 g/l
Dry Time (Tack Free).....	2-3 hours	VOC Content (100%).....	<100 g/l
Re-Coat Time.....	2-18 hours	Solvent Resistance.....	Excellent
Foot Traffic.....	3-4 hours	Concrete Adhesion.....	Excellent
Wheel Traffic.....	24 hour min.	Application Temp.....	50°F - 80°F

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

#### SPECIFICATIONS/COMPLIANCES

Meets OTC, CARB, LADCO, SCAQMD VOC restrictions. Dried Coating is USDA accepted.

#### APPROXIMATE COVERAGE RATES

##### Poly Clear 80

First Coat.....200-300 sq ft / gallon  
Second Coat.....250-350 sq ft / gallon

##### Poly Clear 100

First Coat.....100-250 sq ft / gallon  
Second Coat.....125-275 sq ft / gallon

#### SHELF LIFE & PACKAGING

**Poly Clear** has a shelf life of up to 12 months in it's original, sealed, unopened containers. **Poly Clear** is packaged in two gallon and 10 gallon kits.

**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 *Majestic Concrete Prep*. Note, if using *Majestic Concrete Prep* as preparation method, the final rinse should contain a neutralizing agent like *pH Neutralizer*.  
**If using in an exterior application or in an area where moisture vapor is a concern, first prime the surface with Imperial MVB (See MVB Tech Data Sheet).**

**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:** The expected workable pot life after mixing Part A and Part B is approximately 25-30 minutes for the Poly Clear 80 and 20-25 minutes for the Poly Clear 100, 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 Clear** 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. Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

## **CLEAN-UP & PRODUCT REMOVAL**

Use Xylene. Dispose of containers in accordance with local and federal regulations. Dried, cured material may be removed with a commercial paint stripper such as *Kingdom Products Nock-Off* or by using a diamond grinding, sandblasting or similar mechanical action.

## **PRECAUTIONS AND LIMITATIONS**

- **Poly Clear** will not freeze during storage, however, allow temperature to rise to 50°F prior to application.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvents fumes are not distributed.
- If using indoors, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- It is not recommended to apply product over carpet, tile or other type of floor adhesives.
- This product performs best when applied as one or two light coats, NOT one heavy coat.
- Please be aware that this cured product, may be slippery when wet. Consider the addition of *Grip-Fine* anti-skid.
- All new concrete must be cured 28 days prior to application of **Poly Clear**.
- It is not recommended to thin this product. Improper thinning may cause delamination in a short time frame.
- This product may darken the surface of many new and existing concrete slabs. Test Prior To Use.
- SOLVENT VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE OR OTHER SOURCES OF IGNITION LOCATED AT A DISTANCE FROM THE MATERIAL HANDLING POINT.

## **SPECIAL NOTES**

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use.

**For Professional Use Only!**

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