

# POLYKOAT 85

High performance Polyaspartic Polyurea coating system

## PRODUCT DESCRIPTION

PolyKoat 85 is a high solids two-component Polyaspartic Aliphatic Polyurea utilizing the newest innovative proprietary technology. It provides a high gloss clear coating. It's quick curing time provides labor saving capabilities above epoxy and most polyurethane systems. This system is designed to provide more working time and less panic than most polyaspartic systems. The longer open time allows for better penetration, thus superior bonding, reducing common lifting failures. PolyKoat 85 can be used for most types of interior applications and some exterior properly prepared surfaces. It's superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. PolyKoat 85 provides chemical splash and spill resistance and hot tire pick-up resistance much like its epoxy counterpart. PolyKoat 85 can be used easily in conjunction with quartz, chip, and rubberized aggregate systems.

## FEATURES AND BENEFITS

- SELF PRIMING, SUPERIOR PENETRATING AND BOND STRENGTH.
- PRODUCES EXCELLENT ABRASION, IMPACT, AND WEAR RESISTANCE.
- OPTICAL CLARITY OF CLEAR SEALER/ FINISH WITH GREAT UV RESISTANCE..
- QUICK RE-COAT TIME OF 3-5 HOURS AND WALK-ON TIME OF 5-7 HOURS.
- MAY BE USED IN COMBINATION WITH MANY TYPES OF QUARTZ, CHIPS, AND RUBBERIZED AGGREGATES.
- VOC COMPLIANT AND FOOD SAFE FILM.
- EXCELLENT STAIN RESISTANCE.
- HEAT TOLERANT TO 300 F.

## TYPICAL APPLICATIONS

PolyKoat 85 is recommended to be used where any high performance, high gloss and long lasting coatings needed. Examples are restaurants, lobbies, halls, schools, churches, bars, rec rooms, etc. PAP 85 is also an exceptional high gloss protective coating for concrete countertops. The best system for a quick and durable garage floor refinish.

## TECHNICAL INFORMATION

Solids.....	85%
Pot Life.....	35-45 minutes
Re-Coat Time.....	4-6 hours
Foot Traffic.....	4-6 hours
Wheel Traffic.....	24-36 hours (recommended)
Application Temp.....	40°F -85°F
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.	
Wet Appearance.....	Clear
Dry Appearance.....	Clear and Very High Gloss
VOC Content.....	<5 g/l
Blush Resistance.....	Excellent
Solvent Resistance.....	Excellent
Concrete Adhesion.....	Excellent

### PROPERTY PROFILE

Tensile Strength: ASTM D 638: 4000 to 4500 psi  
Mandrel Bend ASTM D 522: Passes, no cracking, 1/8" mandrel bend  
Falling Sand Abrasion Resistance ASTM D 968:  
Clear...30 liters sand/ 1 dry mil

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## COVERAGE

Theoretical Coverage @ 85% Solids (Volume) per gallon

DFT.....	1,091 ft. @ 1 mils
DFT.....	545 ft. @ 2 mils
DFT.....	364 ft. @ 3 mils
DFT.....	273 ft. @ 4 mils
DFT.....	218 ft. @ 5 mils
DFT.....	182 ft. @ 6 mils

## INSTRUCTIONS

**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 If mechanical means of preparation are not suitable, it is recommended to prepare the surface with a concrete etching solution as directed Note, if using acid as preparation method, the final rinse should contain a neutralizing agent such as ammonia and water.

**MIXING:** Proper mixing is pertinent to application success. In equal parts (2:1), mix 2 Part A and 1 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 add extra air into the mixture. No induction time is required prior to use. If integrating anti-skid media such as Tru Grip or Pigments, 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 35-45 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 Polykoat 85 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 1/16" notched squeegee and back roll with the roller over media floors (quartz or chips). It is recommended to use 18" -24" 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 AND REMOVAL

Xylene or similar solvent. Dispose of containers in accordance with Federal and local laws.

## PRECAUTIONS AND LIMITATIONS

- ▶ PolyKoat 85 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.
- ▶ Keep away from open flames. PolyKoat 85 is flammable and is susceptible to ignition.
- ▶ It is not recommended to apply PolyKoat 85 any floor without recommended preparation.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- ▶ PolyKoat 85 was designed for interior applications only. Exterior applications may not provide adequate adhesion.
- ▶ Please be aware that this product when cured may be slippery when wet.
- ▶ PolyKoat 85 has resistance to many chemicals, however testing chemical resistance is always recommended.
- ▶ It is not recommended to thin PolyKoat 85. It is a two component system which must be blended exact to specifications.
- ▶ PolyKoat 85 will darken the surface of many new and existing concrete slabs. Test prior to use

## NOTES

Please consult Material Safety Data Sheet (SDS) and read Warranty information prior to use. This information can be Requested by contacting customer service at 888.263.5895.

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