



## **Polyaspartic**

### **PRODUCT DESCRIPTION AND USE**

Polyaspartic is a high solids two-component 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 continues 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 much like its epoxy counterpart. Polyaspartic 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 U.V. resistance.
- Quick recoat time of 3-5 hours and walk-on time of 5-7 hours.
- May be used in combination with any types of quartz, chips, and rubberized aggregates.
- VOC compliant and food safe film.
- Excellent stain resistance.
- Heat tolerant to 300°F

### **TYPICAL APPLICATIONS**

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

### **PRECAUTIONS AND LIMITATIONS**

- Polyaspartic 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 solvent fumes are not disturbed.
- Keep away from open flames. Polyaspartic is flammable and is susceptible to ignition.

**PRECAUTIONS AND LIMITATIONS (CON'T.)**

- It is not recommended to apply Polyaspartic on any floor without recommended preparation.
- Coverage rates depend on many conditions including application method, surface porosity, applicator, etc.
- Polyaspartic 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.
- Polyaspartic has resistance to many chemicals, however testing chemical resistance is always recommended.
- It is not recommended to thin Polyaspartic. It is two-component systems which must be blended to exact specifications.
- Polyaspartic will darken the surface to any new and existing concrete slabs. Test prior to use.

**TECHNICAL INFORMATION**

**Physical Properties**

Mixing Ratio, by Volume .....	2A:1B
Solids Content, by Weight .....	85%
Volatile Organic Compounds .....	<5 g/liter
Pot Life (77 degrees) .....	35-45 Minutes
Cure Time (77 degrees)	
Recoat .....	4-6 Hours
Light Traffic .....	4-6 Hours
Vehicle Traffic .....	24-36 Hours (Recommended)

**PERFORMANCE PROPERTIES**

Tensile Strength (ASTM D 638) ..... 4000 to 4500 psi  
Mandrel Bend (ASTM D 522) ..... PASS; No cracking 1/8" mandrel bend  
Falling Sand Abrasion Resistance (ASTM D 968) ..... CLEAR – 30L sand / 1 dry mil

**CHEMICAL AND STAIN RESISTANCE (ASTM D-1308 24 HOUR IMMERSION)**

Coffee ..... no effect  
Vegetable Oil ..... no effect

**CHEMICAL AND STAIN RESISTANCE (ASTM D-1308 24 HOUR IMMERSION CON'T.)**

Mustard ..... no effect  
Whiskey ..... no effect  
Urine ..... no effect  
Gasoline ..... no effect  
Motor Oil ..... no effect  
Brake Fluid ..... no effect  
Transmission Fluid..... no effect  
Skydrol ..... no effect  
Mineral Spirits ..... no effect  
10% Sulphuric Acid ..... no effect  
10% Hydrochloric Acid ..... no effect  
10% Acetic Acid ..... no effect  
Xylene ..... slight softening, film recovers  
MEK .....film destroyed

## GENERAL INFORMATION

### Moisture Vapor Emissions Precautions

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings. Resin Tek can supply moisture remediation products. Consult our technical service department. Resin Tek Systems and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

### Surface Preparation

Although Polyaspartic has adhesion capabilities to challenging substrates, always profile the substrate as well as possible. Whenever possible acid etch the surface using a floor machine with a nylogrit brush. Follow the printed Resin Tek Systems guidelines for surface preparation. If acid etching is not possible, clean the surface with a floor machine and nylogrit brush. Use Orange Clean, 1 part to 8 parts water. Do not let detergent residue dry on the concrete. Rinse well. Acid stained surfaces must be scrubbed with Super Base Neutralizer, 8 oz. to 4 gallons of water. Rinse well and allow to dry overnight

### Mixing Instructions

Mix only that amount of product that can be used in a two-hour period at 77°F. Higher temperatures reduce pot life. The combining ratio is 2 parts A to 1 part B. Proportion the amounts carefully and mix for one full minute using a low speed drill, scraping the bottom and sides of the mixing vessel. Avoid contamination with moisture. Reseal partially used containers completely after use.

### Application Recommendations

Polyaspartic may be applied by brush, roller, or airless sprayer. If rolling the material, use a ½ inch roller cover, work out of a 5-gallon pail or roller pan using the dip and roll method. Do not pour the material onto the floor. Because the material dries quickly, apply liberally and work small areas. Application rate should be 200-300 sq. ft. per gallon. Do not over-apply or allow puddling as solvent entrapment may occur. ***Do not use solvent acrylic sealers as a primer for this material.***

### Recoating Guidelines

Polyaspartic has an indefinite recoat window when being recoated with itself. If recoating with Chemical Resistant Urethane/UV Resistant (RT-CRU/UVR) and more than 24 hours has elapsed, reduce the material with approximately 15% acetone (1-pint acetone to 1 gallon of mixed material). If recoating the Polyaspartic with Water Base Urethane RT-WBU and more than 24 hours elapses, degloss the surface using a floor machine and a black janitor pad. Following these procedures will ensure good intercoat adhesion.

### Handling Precautions

Material is flammable. Extinguish all flames, pilot lights and electric motors until all vapors are gone and the coating is hard. The vapor is harmful. Use only with adequate ventilation or appropriate cartridge type respirator. Avoid contact with skin, wear protective gloves. Read Safety Data Sheet before using.

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