



## Product Data Sheet

### PRODUCT DESCRIPTION

85 Polyaspartic is a 2 component high solids polyaspartic designed to provide high gloss, UV stable (non-yellowing), high temperature resistance and chemical resistant protection. It is a superior, new generation product exhibiting an excellent balance of pot life, cure time, return to service and chemical resistance. It has a very low odor and can be applied indoors in occupied areas. It functions as a clear or pigmented high gloss finish for resinous decorative and industrial flooring systems including chip systems, quartz systems, topcoats for logos and slip resistant systems (with additive).

### LDL PUC SL3 ADVANTAGES AND BENEFITS

- Fast cure and return to service
- Excellent pot life
- VOC compliant
- ADA compliant (slip coefficient >0.6)
- Excellent adhesion
- Extraordinary chemical resistance
- Easy Maintenance
- Wide range of application temperatures

### LIMITATIONS

Not recommended for use over wet or damp substrates. Avoid applications with active moisture vapor transmission. It is best suited for application in temperatures between -10 deg F to 85 deg F. Substrate must be clean, sound and dry.

### SUBSTRATE REQUIREMENTS

Site must be free of dirt, waxes, curing agents, or other foreign agents and free from condensation or water contamination during application and cure. Diamond grinding is recommended. All control joints and expansion joints must be revealed with the appropriate divider strips in the new surface. Relative humidity should be < 60% for optimal pot life and working time.

### SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly by trained or experienced contractors or maintenance personnel.

### INSTALLATION

Important: Refer to detailed mixing and installation instructions document. 85 Polyaspartic is a two-component material (1 part A to 1 part B by Volume). Add Part B to Part A while mixing, using a slow speed mechanical mixer (Jiffy mixer). Mix until a homogeneous mixture is obtained (approximately 30-45 seconds). Use care to scrape sides and bottom of container to ensure that no unmixed material remains. Do not whip too much air into the material which may result in pinholes or blisters. Do not mix more material than can be used in 10 minutes at 50% RH (working time will be reduced at higher humidity levels). 85 Polyaspartic will begin to increase in viscosity immediately after mixing and will double in viscosity within 10-15 minutes. Material should be in place at this point. After mixing, pour material onto surface apply with a 3/8" nap, high quality, lint-free roller working quickly to achieve a spread rate of 200-250 ft<sup>2</sup>/gal. Alternatively, another application method is to pour material on floor in a ribbon and spread with a flat trowel or notched squeegee depending on thickness of application. Typical application is 6-12 mils (125-250 ft<sup>2</sup>/gallon). Immediately backroll spread material gently with a 3/8" nap roller. Do not over roll and entrap air. Total application time should take no longer than 10 minutes, including roll-in time of the subsequent batch. Important note when using 85 Polyaspartic Clear to grout colored quartz or chips (flake): As the material is spread across the surface, maintain a substantial ribbon of material on the leading edges of your batch, and pour subsequent batch into the ribbon. Failure to do this may result in visible knit lines. Up to 10% solvent (MEK, xylene, ethyl acetate, Oxsol 100) may be added at time of mixing to slightly lower viscosity and lengthen pot life. 85 Polyaspartic will be tack-free in 1-2 hours at 75 F and 50% relative humidity. Allow resin to cure tack-free if applying more than one coat. Light pedestrian traffic is possible after 2-4 hours, 8-12 hours for wheeled carts or cleaning with liquids, 24-48 hours for vehicle traffic. In general, thicker applications will require longer cure time before exposing to heavy traffic. 85 Polyaspartic is highly stain resistant and hot tire resistant after 48 hours. **CLEAN-UP** Clean skin with soap and water. Tools and equipment should be cleaned with MEK, xylene, or lacquer thinner. **COVERAGE** 85 Polyaspartic is typically spread at 125-250 ft<sup>2</sup>/gallon to yield 6-12 mils. Up to 15 mils is possible in one application but will exhibit a significantly longer cure time to develop full hardness required for heavy traffic. Do not exceed 15 mils or microbubbles may form, resulting in a white haze.

### PACKAGING AND STORAGE

85 Polyaspartic is provided in pre-measured kits that include A and B liquids in 1 gallon cans or 5 gal pails. Kits should be stored in a clean, dry area in stable temperatures approximating 60 to 73 deg F.



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### MOISTURE CONCERNS

Limits for moisture vapor transmission for 85 Polyaspartic systems are 3lbs/1000sqft/24 hours using the calcium chloride test, per ASTM F1869. Surface moisture should be less than 4% using an impedance meter, per ASTM E1907. If higher than acceptable values are obtained, it may be necessary to prime the substrate surface. Contact your Progressive Industrial Coatings technical representative for assistance in selecting the proper vapor barrier primer for your application.

### MAINTENANCE

Regular cleaning and maintenance will prolong the life of all polymer flooring systems and enhance their appearance. 85 Polyaspartic will withstand pressure water washdowns, and a wide range of degreasing cleaners.

### TECHNICAL DATA FOR 85 POLYASPARTIC

| Physical Property    | Test Method | Result                                |
|----------------------|-------------|---------------------------------------|
| Hardness (Shore D)   | ASTM D-2240 | 30 (24 hrs)<br>70 (4 days)            |
| Compressive Strength | ASTM C-579  | 7500 psi                              |
| Tensile Strength     | ASTM D-638  | 3500 psi                              |
| Flexural Strength    | ASTM D-790  | 3000 psi                              |
| Impact Resistance    | ASTM D-3134 | pass                                  |
| Slip Resistance      | ASTM D2407  | pass 0.9                              |
| Abrasion Resistance  | ASTM D4060  | 30 mg loss CS 17<br>wheel 1000 cycles |
| Elongation           | ASTM D412   | 15%                                   |

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Cure time @ 70F                 |                                       |
| Light Traffic                   | 2-4 hrs                               |
| Light Wheel Traffic             | 8-10 hrs                              |
| Full Service                    | 24-48 hrs                             |
| Mix Ratio (pre measured volume) | 1:1                                   |
| Working time                    | 10-15 min                             |
| Service temperature             | -20 - 200 F                           |
| Toxicity                        | Sensitized individuals do not install |

### CHEMICAL RESISTANCE

85 Polyaspartic has excellent resistance to organic and inorganic acids, alkalis, fuel and hydraulic fluids, aromatic and aliphatic solvents. Some acids may discolor or bleach the surface.

### CHEMICAL RESISTANCE CHART ASTM D 1308

| Chemical               | Result            |
|------------------------|-------------------|
| Acetic Acid (10%)      | Pass              |
| DI Water               | Pass              |
| 10% Sulfuric Acid      | Swells - recovers |
| 10% Hydrochloric Acid  | Pass              |
| 15% Ammonium Hydroxide | Pass              |
| 10% Bleach             | Pass              |
| Betadine               | Pass              |
| Gasoline               | Pass              |
| 50% Sodium Hydroxide   | Pass              |
| Methyl Ethyl Keytone   | Pass              |
| Xylene                 | Swells - recovers |
| Mineral Spirits        | Pass              |

### HEALTH AND SAFETY

Read carefully and follow Material Safety Data Sheets and application instructions for the 85 Polyaspartic flooring system prior to use. Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment and clothing to use when handling this product. Use only as directed.

### WARRANTY

Progressive Industrial Coatings warrants that for a period of one year its products will be free of manufacturing defects and will be in conformity with published specifications when stored, handled, mixed, and applied in accordance with Progressive Industrial Coatings' recommendations. If any product fails to meet this warranty, Progressive Industrial Coatings' liability will be limited to replacement of any non-conforming material if notification is made to Progressive Industrial Coatings within the one-year period. In order to obtain replacement or refund for the value of the non-conforming materials, the customer must provide written notice containing details of the non-conforming performance. Progressive Industrial Coatings reserves the right to inspect the non-conforming material before replacement is made. Except for the expressed warranty stated here, there are no other warranties, expressed or implied, including without limitation, any implied warranty of merchantability or fitness for any other purpose. Progressive Industrial Coatings's obligation shall not extend beyond the obligations expressly undertaken above and Progressive Industrial Coatings shall have no liability or responsibility to the purchaser or any other third party for any loss, cost, expense, damage, or liability, weather direct or indirect, or for incidental or consequential damages.