



# POLYASPARTIC 85

2-COMPONENT, 1 TO 1 MIX RATIO

## Physical Properties

Volumetric Ratio: ..... 1 to 1  
 Volumetric Solids ..... 85%  
 Coverage over Flake  
 ..... 180 - 200 sqft/Gal @8 mil  
 Coverage over smooth coating  
 ..... 225 to 250 sqft/Gal @8 mil  
 Application temperature: ..... 35-100°F  
 Thinning: ..... Not required  
 Pot life: ..... 15-20 minutes  
 Working time on floor: .. 15-20 minutes  
 Cure time: ..... 4-6 hours  
 Critical recoat time: ..... 12 hours  
 Shelf life: ..... 12 months  
 USDA Food & Beverage: .... Meets Req.

## Color: Clear

Available Colors:

- Light Gray
- Medium Gray
- Dark Gray
- White
- Black
- Tan
- Beige
- Mocha
- Tile Red
- Safety Red
- Safety Blue
- Safety Green
- Safety Yellow

## Packaging

### 2 Gallon Kit:

Part A ..... 1 gal.  
 Part B ..... 1 gal.

## Packaging

### 10 Gallon Kit:

Part A ..... 5 gal.  
 Part B ..... 5 gal.

## PRODUCT DESCRIPTION

E2U Polyaspartic85 is the next generation of 2-component, fast-drying, high-solids, solvent-free, aliphatic Polyaspartic. It has excellent resistance to a broad range of chemicals such as inorganic acids, alkalis, amines, salts and solvents. E2U Polyaspartic85's formula provides non-yellowing and long-term gloss retention for interior/exterior applications. It is the essential product when a project needs a fast turnaround, a highly UV resistance, low VOC and flexible system.

## APPLICATIONS

- Pharmaceutical
- Food Prep/Kitchens
- Garage Floors
- Restrooms
- Manufacturing plants
- Aisle ways
- Clean rooms
- Auto showrooms
- Schools
- Laboratories
- Basements
- Kennels
- Veterinary facilities
- Locker rooms
- Ramps
- Health Care facilities
- Loading docks
- Car wash facilities

## ADVANTAGES

- High Gloss (just like glass) & Build
- 4x more abrasion resistant than epoxy
- Non-yellowing
- Chemically resistant
- Scratch, abrasion resistant
- Easy mixing ratio (1:1)
- Solvent FREE
- Cure at temperatures just above Freezing
- Does not support growth of bacteria or fungus.

## TYPICAL PROPERTIES

PROPERTY	VALUE
Appearance	Clear Liquid
Total Solids (% by Weight)	85
Total Solids (% by Volume)	85
Surface Tension, Dynes/cm	40
Viscosity (Brookfield LVF), cps @ 25° C	600
Density (lbs/gallon)	8.32
Specific Gravity	1.0
Flash Point (C Pensky-Martens closed cup)	<70°F
Freeze/Thaw Stability	N/A
Thermal Stability (28 days @ 52° C)	No Effect
Mechanical Stability	Good
VOC (g/l)	0
VOC (by Weight)	0
Tg (C)	66
Tensile Strength, psi	7000
Elongation	8%



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## FILM PROPERTIES

### PHYSICAL PERFORMANCE PROPERTIES OF DRY FILM

All tests were conducted on 2.0 to 2.5 mil films, and air-dried for seven days at room temperature..

PROPERTY	VALUE
Hardness (Pencil / Sword)	2H / 70
Taber Abrasion (mg loss per 1000 cycles, CS-17 wheel, 1000 load)	52
Impact Resistance (Direct / Reverse)	140 / 140 (lbs)
Crosshatch Adhesion (Untreated Cold Rolled Steel / Untreated Aluminum)	100% / 100%

### QUV WEATHEROMETER (ALCLAD ALUMINUM 1000 HRS.)

PROPERTY	VALUE
Oxidation	No Effect
Loss of Gloss	Slight

### CHEMICAL RESISTANCE: 7-DAY SUBMERSION

PROPERTY	VALUE
Brake Fluid	No Effect
Transmission Fluid	Slight Discoloration
Coolant	No Effect
Power Steering Fluid	Slight Discoloration
Battery Acid	Damaged
MEK	<200 Double Rubs
Acetone	<200 Double Rubs
Formula 409	<200 Double Rubs

## CONCRETE PREPARATION

Before coating is applied, concrete must be:

- Dry – No wet areas
- Clean – Contaminants removed
- Profiled – Surface etched
- Sound – All cracks and spalled areas repaired

Mechanical preparation is the preferred method of preparing concrete for coating application. Preparation must be done by shotblasting or diamond grinding. Do not acid etch.

## PATCHING

Voids, cracks and imperfections will be seen in finished coating if the concrete is not patched correctly. Patch concrete with Easy Patch. After the patching material is cured, diamond grind patch. If a non-patching material is used, contact a technical representative for a compatible and approved alternative.

## MOISTURE VAPOR EMISSIONS WARNING

All concrete floors without effective moisture vapor barrier are subject to possible moisture vapor transmission that may cause blistering and failure of the coating system. It is the applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine vapor emissions prior to applying any coating. Epoxy2U can supply moisture remediation products, MVB15 (MOISTURE VAPOR BARRIER). EPOXY2U, sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

## MIXING

The ratio of Polyaspartic 85 is 1 Part A to 1 Part B by volume. Mix for 1 full minute using a slowspeed drill, scraping the bottom and sides of the mixing container. Mix only that amount which can be spread in 30 minutes.

## CLEAN UP

While in an un-reacted state, may be cleaned up with water and degreaser. Isopropyl alcohol or acetone may be needed once the resin begins hardening. Lastly, a strong solvent like methylene chloride may be required if resin is nearly set up.

### WARNING! SLIP AND FALL PRECAUTIONS

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slipresistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. E2U Flooring recommends the use of angular slipresistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. E2U or its sales agents will not be responsible for injury incurred in a slip and fall accident.

### Handling Precautions

Use only with adequate ventilation. Appropriate cartridge-type respirator must be used during application in confined areas. Avoid contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended.

### WARRANTY

E2U products are warranted for one year after date of purchase. Please refer to the Limited Material warranty for additional clarification.



MADE IN THE USA

**KEEP OUT OF REACH OF CHILDREN**

## TECHNICAL DATA SHEET

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REVISED\_MAY-2017