



# POLYASPARTIC 85

2 COMPONENT | 1 TO 1 MIX RATIO POLYASPARTIC

TECHNICAL DATA SHEET

## PRODUCT DESCRIPTION

E2U Polyaspartic 85 has essentially zero odor. The ideal applications are hospitals, restaurants, kennels, veterinary facilities, health care facilities, and garages etc. It is a two-component, extremely chemical resistant, and non-yellowing aliphatic polyaspartic. It features high gloss, high build, and a cure time of 4 to 6 hours, and generally return to service in 24 hours. It can be installed in extremely high or low temperatures. E2U Polyaspartic 85 is the ideal product when extremely low odor, durability and UV stable system are required.

## PRODUCT DATA

Volumetric Ratio	1 to 1
Solids	85%(+/- 1%)
Coverage over Flake	150-160 sqft/gal. at 10 mil
Coverage over Smooth	180-200 sqft/gal at 8 mil
Application Temp	40°-100°F
Thinning	Not Required
Pot Life	10-15 min.
Working Time on Floor	15-20 min.
Cure Time	12 hrs (walking)
Full Cure	24-72 hrs (vehicle)
Shelf Life	12 months
USDA Food & Beverage	Meets Req.
Critical Re-Coat Time	10-12 hrs

## AVAILABLE COLORS

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

## PACKAGING (A&B)

1.5 Gallon Kit	0.75 GAL.
2 Gallon Kit	1 GAL.
10 Gallon Kit	5 GAL.

## 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
Flash Point (C Pensky-Martens closed cup)	<70°F

PROPERTY	VALUE
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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## CONCRETE PREPERATION

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. E2U can supply moisture remediation products MVB15 (MOISTURE VAPOR BARRIER) that are up to 15 lbs. E2U 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. **NOTE: NEVER APPLY POLYASPARTIC 85 AT LESS THAN 150 SQFT PER GALLON. IF YOU DO HAVE TO APPLY AT THAT THICKNESS ALLOW A MINIMUM OF 72 HOURS TO CURE BEFORE RETURN TO SERVICE.**

## CLEAN UP

Polyaspartic 85, while in an un-reacted state, may be cleaned up with hot 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.

## APPLICATIONS

- Pharmaceuticals
- 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

## 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%
Max Heat Resistance	150°F

### 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	Slight Discoloration
Coolant	No Effect
Power Steering Fluid	Slight Discoloration
Gasoline	No Effect
Battery Acid	Damaged
MEK	<200 Double Rubs
Acetone	<200 Double Rubs

## APPLICATIONS

- High Gloss & Build
- Solvent Free
- Non-Yellowing
- Chemical, Scratch, Abrasion Resistant
- Essentially Zero Odor
- Easy Mixing Ratio (1:1)
- 4x More Abrasion resistant than epoxy
- Cures at temps just above freezing
- Does not support growth of bacteria or fungus.

### 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 recommends the use of angular slip-resistant 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 USA

KEEP OUT OF REACH OF CHILDREN