

## TECHNICAL DATA

### DESCRIPTION

UK-1000 Aliphatic Polyaspartic is a two component 84% solids, low VOC's, aliphatic polyaspartic that was developed for UV stable (colorfast) flooring and coating applications. This new generation polyaspartic displays fast cure times and excellent adhesion characteristics.

UK-1000 can be spray applied or applied by squeegee and roller at a broad temperature range. This polyaspartic elastomer displays excellent chemical resistance, and UV resistance (in any color) at a wide range of temperatures.

UK-1000 will provide a smooth glossy finish when fully cured. An aggregate can be broadcast into this self-leveling material to provide a non-skid surface.

UK-1000 emits very low odor and can be applied indoors without high VOC levels attributed to many polyurethane's. UK-1000 meets USDA and FDA specifications. VOC Content: 1.09 pounds or 130 g/l.

### TYPICAL APPLICATIONS

- ✓ Aircraft Hangar Floors
- ✓ Manufacturing Floors & Walls
- ✓ Exterior Floors & Walls
- ✓ UV-Stable
- ✓ Showrooms
- ✓ Commercial Properties
- ✓ Topcoat for Decorative Finishes

### FEATURES

- ✓ Fast Cure Times
- ✓ Quick Return to Service.
- ✓ Extended Pot Life
- ✓ Minimal waste.
- ✓ Excellent Chemical Resistance
- ✓ Very Low Odor

- ✓ UV Stable (colorfast)
- ✓ Excellent Adhesion

### USAGE

UK-1000 adheres well to many substrates when properly primed including concrete, steel and wood. Substrate surfaces should be free of loose particles, rusts, voids and spills.

#### LIMITATIONS (Max thickness per coat: 25 mils)

Do not apply UK-1000 to wet substrates. Contact Absolute for primer recommendations in wet applications. In almost every application, a primer is recommended prior to use of the UK-1000 polyaspartic. This will help prevent pin holing, and outgassing.

#### NEW CONCRETE

The concrete should be allowed to cure for a minimum of 30 days or for concrete that can not be cured for 30 days consult Absolute for primer. Shot blasting, sandblasting or acid etching (15% muriatic acid / 85% H2O) is required to remove the surface lattice that appeared during the curing process. A primer should be applied to reduce outgassing. Contact Absolute for specific recommendations. A 10-20 mil coat is generally recommended depending on chemical resistance and abrasion issues.

#### CARBON STEEL

The steel must be prepared to a "near white metal," equivalent to SSPC 10 or NACE 2. For immersion service, a 3-mil blast profile is recommended. A 2-mil blast profile is generally accepted. A 10-20 mil coat of Aspartikote-1000 is generally recommended based on chemical resistance issues.

### PROPERTIES

Tensile Strength (PSI)

ASTM D412.....>5000

Tear Strength (PLI)

ASTM D2240.....500

Hardness, Shore D

# Absolute Protective Coatings

ASTM D2240.....	70
Flashpoint (°F)	
ASTM Pensky-Martin.....	>200
Taber Abrasion (mg loss)	
ASTM D4060.....	65
CS17-Wheel.....	1 kg per 1000 revs
Pot Life (75°F).....	20 minutes
Tack Free Time (75°F).....	1 hour
Open to Foot Traffic.....	2 hours
Mix Ratio by Volume A / B	2 A:1 B, - carefully read product labels for any/all specific ratios.

## CHEMICAL RESISTANCE

Consult Absolute Protective Coatings Technical Department for specific applications.

## SHELF LIFE AND STORAGE

Six months in factory delivered unopened containers. Keep away from extreme heat, cold, and moisture. Maintain at a proper storage temperature of 60°F - 100°F.

**STANDARD COLORS (Use Absolute Protective Coatings Pigment "LP-AD")** All Primary Colors  
• Custom Tints

## COVERAGE

65 - 150 sq ft per gallon @ 10- 25 mils

## PACKAGING

1.5 gallon kit

Net Volume A: 1 gallon (8.58 pounds)

Net Volume B: half gallon (4.71 pounds)

4.5 gallon kit

Net Volume A: 3 gallon (25.74 pounds)

Net Volume B: 1.5 gallons(14.12 pounds)

## SHIPPING WEIGHT

10 lbs per gallon (approximate)

## SHIPPING INFORMATION

UK-1000 can ship via commercial truck lines. The class is "55" polyaspartic spray. The "A" and "B"

sides are unregulated.

## INSTALLATION GUIDELINES

### PRE-OVERLAY CHECKLIST

1. All substrates shall be sound, solid and free from any loose or failing components. Substrates must not flex or deform under load. All surfaces must be free from previously applied coatings, dust, rust, scale, grease, oil, and other bond breaking contaminants.
2. Cracks greater than 1/8 inch in width shall be routed to a minimum of 1/4 inch wide by 1/4 inch deep and filled with Absolute Protective Coatings R-60 or PF-60 or other approved product.
3. Fill all expansion joints as required – using Absolute Protective Coatings PF-60 or approved product.
4. All application equipment shall be in good operating condition.
5. Coating materials shall not be applied when the ambient air temperature or the surface temperature is not within 40 - 80 degrees fahrenheit. For any temperature differential, consult Absolute Protective Coatings
6. Keep material out of sun or hot areas prior to applying, as this may cause working time to be diminished and could cause poor appearance and/or adhesion.

### SURFACE PREPARATION

1. Prepare surface to a minimum CSP-3 profile, removing all surface contaminants, including sealers, oils, or other bond inhibiting substances. Mechanically abrade by shotblaster, diamond grinding, or other means to provide a coarse (rough) texture.
2. Rout out all cracks to a minimum of 1/2" wide by 1/2" deep, using concrete saw equipped with dry cut crack chasing blade.
3. Vacuum surface free of all dust and dirt.
4. Fill all routed cracks with Absolute approved material (recommend PF-60 or R-60 depending on conditions or contact Absolute Protective Coatings for approved products).

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## MIXING AND INSTALLATION INSTRUCTIONS

Note: please consult product labels for appropriate mixing ratios.

Mix no more than can be applied within expected pot life. Replace rollers every hour.

### **If adding pigment:**

Add pre-measured color pack to resin (part A) and blend for two minutes or until thoroughly and evenly dispersed.

For all colors other than Clear, thoroughly mix Part A for 3 minutes using drill equipped with Jiffy mixer to assure even distribution of pigment. This step not required for Clear UK-1000 coats.

1. Maintaining proper mixing ratio, pour Parts A and B into a disposable container and mix with jiffy mixer for 2 minutes.
2. Immediately begin application.
3. Apply using roller (high-quality, shed resistant, low-lint, 3/16" or 3/8" nap roller), squeegee, or airless sprayer (max 25 mils WFT per coat - minimum 2 hours between each coat).

## ROLLER APPLICATION

Recommended for applications of 10 - 25 mil thicknesses.

NOTE: DO NOT pour mixture onto floor and spread - dip and roll only.

1. Dip roller into container of mixed UK-1000.
2. Roll onto substrate using high-quality, shed resistant, low-lint, 3/16" or 3/8" nap roller.
3. Replace rollers every hour.

## SQUEEGEE APPLICATION

Recommended for applications of 5 - 20 mil thicknesses, or for topcoats on color quartz and non-skid aggregate applications.

NOTE: DO NOT pour entire contents onto floor, only pour small ribbons that can be quickly be

squeegeed onto surface.

1. Pour a small amount of mixed UK-1000 onto floor.
2. Squeegee onto floor using firm, but even pressure.
3. Clean or replace squeegees frequently.

## NON-SKID APPLICATIONS

### *Light Duty/Pedestrian Traffic*

1. Add 8 fluid ounces of Sole Grip for each gallon of mixed UK-1000.
2. Blend thoroughly for 2 minutes using drill equipped with Jiffy mixer to assure even distribution of Sole Grip.
3. Follow **ROLLER APPLICATION** instructions

### *Heavy Duty/Forklift Traffic*

1. Broadcast choice of Unimin, Emery, or White Aluminum Oxide into uncured coating.
2. Wait a minimum of 2 hours before adding any subsequent top coat.
3. Apply additional Aspartikote-1000 topcoat to lock-in traction aggregate following **ROLLER APPLICATION** instructions

## SPRAYER APPLICATION

Use conventional airless sprayer similar to that used for latex paint applications.

## APPLICATION OVER EXISTING EPOXY COATING

1. Clean coating of all dirt, grease, oil or other contaminants by washing with degreaser or soap.
2. Rinse well with fresh water and dry.
3. Sand with sand paper, use 36 grit on a floor buffer type sander.
4. Remove dust by vacuum and tack cloth.
5. Apply 60-W epoxy primer at 5-10 mils WFT.
6. Allow 60-W a minimum of 4 hours and up to a max of 24 hours cure.
7. Apply UK-1000 at 15-20 mils WFT by roller.

## REPAIRS AND MAINTENANCE

Small repairs to cuts in the coating can be made with UK-1000. This material can be caulked or brushed on the surface after scuffing. Re-spraying or rolling of UK-1000 (after 4 hours of initial application) requires the use of a primer or sanding to achieve optimum adhesion.

## CLEAN UP

1. Clean tools immediately after use with xylene or MEK.

## MATERIAL SAFETY DATA SHEETS

Material safety data sheets are available upon request. It is strongly recommended that all persons involved in the handling of Absolute Protective Coatings products read them.

## WARRANTY NOTICE

Recommendations for product use based on tests believed to be reliable. Field conditions vary widely. For this reason, the user must determine product suitability for the particular use and specific applications. Absolute Protective Coatings warrants that this product will be free of manufacturing defects for a period of (6) six months from date of manufacture. Absolute will, at its option, replace any material or will refund the purchase price of any material that does not conform to our standard specifications, if the discovery of non-compliance is made within (6) six months of delivery of material. Absolute Protective Coatings liability and obligation is limited only to replacement or refund of product. Absolute Protective Coatings assumes no liability for injury, loss or damage resulting from use of this product.

## CORPORATE CONTACT

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