

TECHNICAL DATA

DESCRIPTION

UK-1500 Aliphatic Polycarbamide is a two component 93% solids, low VOC developed for UV stable (colorfast) flooring and coating applications. This new generation polycarbamide displays fast cure times and excellent adhesion characteristics.

UK-1500 can be applied by squeegee, roller and spray equipment at a broad temperature range. This elastomer displays excellent chemical resistance, and UV resistance (in any color) at a wide range of temperatures.

UK-1500 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-1500 emits little to no odor and can be applied indoors without high VOC levels attributed to many competing technologies such as polyurethane's, poly urea's and polyaspartics. UK-1500 meets USDA and FDA specifications. VOC content: 0.55 pounds or 66 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-1500 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-1500 to wet substrates. Contact Absolute Concrete Colors for primer recommendations in wet applications. In almost every application, a primer is recommended prior to use of the UK-1500 polycarbamide. 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 Concrete Colors 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 Concrete Colors 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 UK-1500 is generally recommended based on chemical resistance issues.

PROPERTIES

Tensile Strength (PSI)	
ASTM D412.....	>4500
Tear Strength (PLI)	
ASTM D2240.....	500

Hardness, Shore D	
ASTM D2240.....	>70
Flashpoint (°F)	
ASTM Pensky-Martin.....	>200
Taber Abrasion (mg loss)	
ASTM D4060.....	45
CS17-Wheel.....	1 kg per 1000 revs
Gel Times (75°F).....	20-30 minutes
Tack Free Time (75°F).....	2 hours
Open to Foot Traffic.....	4 hours
Mix Ratio by Volume A / B	Clear = 2:1

CHEMICAL RESISTANCE

Consult Absolute Concrete Colors 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 Concrete Colors Pigment "LP-AD") All Primary Colors • Custom Tints

COVERAGE

80-150 sq ft per gallon @ 10-20 mils

PACKAGING

1.5 gallon kit

4.5 gallon kit

SHIPPING WEIGHT

10 lbs per gallon (approximate)

SHIPPING INFORMATION

UK-1500 can ship via commercial truck lines. The class is "55" polycarbamide. 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 1/6 inch in width shall be routed to a minimum of 1/4 inch wide by 1/4 inch deep and filled with R-60 or PF-60 materials.
3. Fill all expansion joints as required – using PF-60.
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 outside the boundaries as stated on the product data sheets and application guidelines.
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 Concrete Colors approved material (recommend PF-60 or R-60 depending on conditions).

MIXING AND INSTALLATION INSTRUCTIONS

Absolute Protective Coatings

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 2 minutes using drill equipped with Jiffy mixer to assure even distribution of pigment. This step not required for Clear UK-1500 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.

1. Use roller tray.
2. Roll onto substrate using high-quality, shed resistant, low-lint, 3/16" or 3/8" nap roller.
3. Consult with Absolute Concrete Colors for proper tech-nique.
4. Replace rollers every hour.

SQUEEGEE APPLICATION

Recommended for applications of 5 - 10 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-1500 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-1500.
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 topcoating.
3. Apply additional UK-1500 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, 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 a minimum of 8 hours max of 24 hours cure.
7. Apply UK-1500 at 15-20 mils WFT by roller.

REPAIRS AND MAINTENANCE

Small repairs to cuts in the coating can be made with UK-1500. This material can be caulked or brushed on the surface after scuffing. Re-spraying or rolling of UK-1500 (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 Concrete Colors 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 Concrete Colors warrants that this product will be free of manufacturing defects for a period of (6) six months from date of manufacture. Absolute Concrete Colors 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 Concrete Colors liability and obligation is limited only to replacement or refund of product. Absolute Concrete Colors assumes no liability for injury, loss or damage resulting from use of this product.

CORPORATE CONTACT

Absolute Concrete Colors
1265 N Hendrickson Dr
Kalama, WA 98625

Tel: 360-673-6404

absoluteconcretecolors.net
absoluteconcretecolors@gmail.com