**PROFESSIONAL COATINGS**

**PRODUCT DESCRIPTION:**

**ULTRA GLOSS CRU-CLEAR/COLOR** is a two-component polyester/ aliphatic polyurethane floor coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering and UV stability.

**RECOMMENDED USAGE:**

Recommended for auto service centers, showrooms, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposure areas.

**PACKAGING INFORMATION:**

1.5 gallon kit (clear) #UG321 (colored) #UG321C

3 gallon kit (clear) #UG321-3 (colored) #UG321C-3 (VOC Compliant) #UG322-3

15 gallon kit (clear) #UG321-15 (colored) #UG321C-15 (VOC Compliant) #UG322-15

**COVERAGE:**

320 to 500 sq. ft. @ 3-5 mils wet thickness

**CURE SCHEDULE:**

Pot life - 1 1/2 gallon volume 2-5 hours @ 70 F

Tack free (dry to touch) 2-4 hours @ 70 F

Recoat or topcoat 4-8 hours @ 70 F

Light foot traffic 14-24 hours @ 70 F

Full cure (heavy traffic) 3-5 days @ 70 F

**LIMITATIONS:**

* Colors may be affected by high humidity, low temperatures or chemical exposure.
* Slab on grade requires moisture barrier.
* Substrate temperature must be 50 F above dew point.
* All new concrete must be cured for at least 30 days. Physical properties are typical values and not specifications.
* Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide.
* Certain types of tires upon contact may cause staining and discoloration over time.
* Colors may vary from batch to batch, therefore, use only product from the same batch for an entire job location.
* See reverse side for application instructions.
* See reverse side for limitations of our liability and warranty.

**CHEMICAL RESISTANCE**

**REAGENT** **RATING**

Acetic acid 5% C

Xylene E

MEK B

Methyl alcohol B

Gasoline D

10% sodium hydroxide E

50% sodium hydroxide D

10% sulfuric acid D

10% hydrochloric acid D

20% nitric acid C

Ethylene glycol D

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| **GENERAL PRODUCT DATA** |
| **FEATURE** | **ADVANTAGE** |
| **MIX RATIO** | 2 Parts A to 1 Part B by volume |
| **RECOMMENDED FILM THICKNESS** | 3-5 mils per coat wet thickness (yields 2-3 mils dry) |
| **APPLICATION TEMPERATURE** | 45-90º F with R.H. below 90% |
| **COLORS AVAILABLE** | White, off white, light gray, medium gray, dark gray, charcoal gray, tile red, brown, tan, beige, light blue, blue, green, clear and special colors upon request. |
| **FINISH CHARACTERISTICS** | High gloss (80-100 at 60º @ Erichsen glossmeter) |
| **PRIMER** | Recommend EPO-SEAL and AC SEAL/KOTE 57 or 65. |
| **TOPCOAT** | None recommended  |
| **SOLIDS BY WEIGHT** | Mixed = 60% (colors); 56% (clear) (+,- 2%) |
| **SOLIDS BY VOLUME** | Mixed = 53% (colors); 53% (clear) (+,- 2%)  |
| **VISCOSITY** | Mixed = 200-400 cps (typical, most colors) |
| **FLEXIBILITY** | No cracks on a 1/8" mandrel. |
| **IMPACT RESISTANCE** | Gardner Impact, direct & reverse = 160 in.lb. (passed) |
| **ABRASION RESISTANCE** | Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 20.0 mg loss |
| **ADHESION** | 360 psi @ elcometer (concrete failure, no delamination) |
| **HARDNESS** | Shore D = 72 |
| **VOLATILE ORGANIC CONTENT** | Part A = 4.6#/gal. (colors); 4.7#/gal. (clear)Part B = 2.20#/gal.  |
| **DOT CLASSIFICATION** | Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII" |
| **SHELF LIFE** | 1 year |

**PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90° F.

**SURFACE PREPARATION:** Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry. This can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet test is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding. Rough and eroded areas need to be patched prior to coating with acceptable material. Patch and level eroded areas and file cracks with suitable VSC products for best results.

**PRODUCT MIXING:** This product has a two to one mix ratio by volume - merely mix two gallons of Part A with 1 gallon of Part B. After the two parts are combined, mix well with slow speed mixing equipment such as a prop mixer until the material is thoroughly mixed and streak free. Avoid whipping air into the coating. If decanting, pre-mix colored resin.

**PRODUCT APPLICATION:** The mixed material can be applied by brush or epoxy roller. Spraying may require extra safety precautions, therefore, read the MSDS before spraying. Maintain temperatures within the recommended ranges during the application and curing process. Properly prime the substrate. It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller marking during application.

**RECOAT OR TOPCOATING:** Multiple coats of this product are acceptable. If you opt to recoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. Before recoating or topcoating, check the coating to insure no contaminants exist. If a blush or contaminants are present on a previous coat, remove with a standard detergent cleaner. When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hours passes. Also, it is advisable to degloss the previous coat to insure a trouble free bond.

**CLEANUP:** Use ketone solvents (MEK).

**FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

**RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. **NOTE:** Lower floor and air