

# Vanberg Specialized Coatings

## Ultra Gloss CRU Clear/Color Data Sheet



### PROFESSIONAL COATINGS

20% nitric acid	C
Ethylene glycol	D

#### 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 5° 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

#### 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°-90° 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 60° @ 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

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#### WARRANTY STATEMENT

Information about VSC products is given to the best of our knowledge, based on tests and experience. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you will make your own tests to determine the suitability of the product for your particular purpose. As products are often applied or used under conditions beyond our control, VSC cannot guarantee anything but the quality of its products. VSC warrants that its products meet the specifications set forth by VSC, but we reserve the right to change any given specification without prior notice. VSC DISCLAIMS ALL WARRANTIES RELATING TO THE PRODUCTS AND THEIR APPLICATION, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Receipt of VSC products constitutes acceptance of the terms of this limited warranty and the terms and the conditions set out in our invoice, contrary provisions of buyer's purchase documents notwithstanding. Upon receipt of merchandise, purchaser has 30 days to notify VSC in writing that materials are defective. In the event VSC finds that the product delivered is off specification, VSC will, at its sole discretion, either replace the product or refund the purchase price thereof, and VSC's choice of one of these remedies is the buyer's sole remedy. In no event shall the liability of VSC exceed the purchase price of shipped merchandise. Claims must be in writing. Claims after 30 days are void. VSC will under no circumstances be liable for special, incidental or consequential damages. This warranty supercedes all other guarantees, whether oral or written, and whether expressed, implied or statutory. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Certain products may contain chemicals which may cause serious physical injury. Before using, please read the Material Safety Data Sheet and follow all precautions to prevent bodily harm.

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Data Sheets/Ultra-Gloss CRU Clear or Color