



# DC210 High Build Epoxy

## Body/Topcoat

**PRODUCT DESCRIPTION:**

DC210 is a 100% solids epoxy designed for applications where a high build, impact resistant floor is needed. Recommended for use as body coat on concrete and also as a high build topcoat. Often used as a topcoat over DC130 in high build solid color systems. For a fast cure version of this product, please try Epic DC215 Fast Cure Epoxy. Epic DC210 is suitable in many chemical exposure environments. Available in a variety of attractive factory blended colors. **Exhibits low to no odor.**

**SOLIDS BY WEIGHT:** 100% (+/- 1%)

**SOLIDS BY VOLUME:** 100% (+/- 1%)

**VOLATILE ORGANIC CONTENT:** Less than 2 g/l

**STANDARD COLORS:** White, off white, light gray, medium gray, tile red, and beige

**RECOMMENDED FILM THICKNESS:** 12-30 mils

**COVERAGE PER GALLON:** 50-130 square feet per gallon @ 12-30 mils

**PACKAGING INFORMATION:** 3 gallon kits (2.9 – 3.0 gallons net approximately) 15 gallon kits (14 – 15 gallons net approximately)

**MIX RATIO:** 2 part A to 1 part B by liquid volume

**SHELF LIFE:** 1 year in unopened containers

**FINISH CHARACTERISTICS:** Gloss (70-95 at 60 degrees @ glossmeter)

**ABRASION RESISTANCE:** Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 32 mg loss

**FLEXURAL STRENGTH:** 5,400 psi @ ASTM D790

**COMPRESSIVE STRENGTH:** 9,100 psi @ ASTM D695 – 1/2 "X 1/2" bars

**ADHESION:** 450 psi @ elcometer (concrete failure, no delamination)

**VISCOSITY:** Mixed = 1300-2300 cps (typical, most colors)

**DOT CLASSIFICATIONS:** Part A "not regulated" Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII"

**TENSILE STRENGTH:** 4,800 psi @ ASTM D638

**ULTIMATE ELONGATION:** 3.1%

**GARDNER VARIABLE IMPACTOR:** 50 inch pounds direct-passed

**HARDNESS:** Shore D = 80

CURE SCHEDULE: (70°)	
pot life (2 gallon volume)	30-50 minutes
tack free (dry to touch)	5-8 hours
recoat or topcoat	8-12 hours
light foot traffic	12-14 hours
full cure (heavy traffic)	2-7 days

CHEMICAL RESISTANCE	
acetic acid 5%	B
xylene	C
trichloroethylene	B
methanol	A
ethyl alcohol	B
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HCl (aq)	C
Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.	

utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

#### **MIXING AND APPLICATION INSTRUCTIONS (DC210)**

1) **PRODUCT STORAGE:** Store product at normal room temperature. Continuous storage should be between 60 and 90 degree F. Low temperatures or temperature fluctuations may cause product crystallization.

2) **SURFACE PREPARATION:** The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil 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.

3) **PRIMING:** A suitable primer should be used before applying this product. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

4) **PRODUCT MIXING:** This product has a mix ratio of 12# part A to 4.15# part B or two parts A to one part B by volume for standard colors. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

5) **PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or overly aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove air bubbles trapped in the coating.

6) **RECOAT OR TOPCOATING:** If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed to insure a trouble free bond prior to application of re-coating or topcoats. Colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check for epoxy blushes (a whitish, greasy film or deglossing). If a blush is present, it can be removed by any standard detergent cleaner prior to topcoating or recoating. Many epoxy coatings and urethanes as well as multiple coats of this product are compatible for use as a topcoat.

7) **CLEANUP:** Use xylol.

8) **FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area,

9) **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. Depending on the actual complete system application, the surface may be slippery, especially when wet or contaminated; keep the surface clean and dry.

#### **LIMITATIONS:**

- Color stability or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights.
- Colors may vary from batch to batch. Therefore, only use products from the same batch for an entire job.
- This product is not UV color stable and may discolor when exposed to UV lighting. Otherwise, the color stability of this product is good. Therefore, a topcoat is optional and dependent on the environment.
- Light or bright colors may require a suitable primer or topcoat to achieve a satisfactory hide.
- Substrate temperature must be 5°F above the dew point.
- All new concrete must be cured for at least 30 days prior to application.
- Apply a suitable primer before using this product as a coating.

#### **NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products.