



## Product Information

### **B.D. CLASSIC 9510AM CRU**

### **Antimicrobial Chemical Resistant Urethane**

#### **Description**

BDC 9510AM CRU is a two component, high solids, solvenated, aliphatic polyester polyurethane with antimicrobial additives. The UV resistant, mar resistant, chemical resistant nature of this product will cause it to outperform most other types of sealers or topcoats when compared. It is available in a 6 hour cure formula. The antimicrobial additives are used to cease mildew and algae growth in this 2-part urethane in accordance with ASTM D5590-00 and Algae Resistance Test 1.3.Alg.1.

#### **Uses**

BDC 9510AM CRU is designed for professional use only and is specified as the finish coat for use in moderate to severe chemical environments or in heavy traffic areas. Apply CRU as a coating over BDC waterbased and 100% solids epoxy primers as well as over all of our epoxy floor coatings. CRU is also used as a sealer on a variety of other substrates such as plain concrete, Texture Crete and Acid Stained Concrete Flooring. Use CRU on Industrial Floors, Garage Floors, Decorative Floors, Restaurant Floors, Food Processing Facilities, Automotive Service Areas.

#### **Advantages**

- VOC < 100 g/l
- Chemical Resistant
- Color and Gloss Retention
- Impact & Abrasion Resistant
- Aliphatic Polyester Polyurethane
- Versatile - Spray, Roll or Brush

#### **Coverage**

300-450 sf per gal as a coating  
500-650 sf per gal as sealer (thin w/acetone)

#### **Packaging**

1 gallon kits premeasured in 2 - 1/2 gallon cans  
(1/2 gallon part A and 1/2 gallon part B)

#### **Colors**

Clear, Satin, Travatan, Sandy Beige, Deep Tan, Cape Cod Grey, Pewter Grey, White, Black and Tile Red, Stone Grey, Arizona Tan

#### **Inspection**

Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion. The concrete should be at least 2500 psi and feel like 30-grit sandpaper. The concrete should be porous and be able to absorb water. A minimum of 28 days cured is required on all concrete. Relative humidity in the concrete floor slab should be below 80% (per ASTM F-2170). All moisture should be

kept away a min. of 72hrs before application and a min. of 72 hours after installation. This includes sprinklers, rain, fog, dew, etc.

Before starting flooring work, test existing concrete slab to make sure there is no efflorescence or high levels of alkalinity. Alkalinity refers to a high pH reading which means the floor is not neutral. A high alkaline environment can cause salts to creep up through the cement called efflorescence. These salts have a tendency to prevent or destroy the bonding of coatings to the concrete. The most common form of testing is the use of a wide-range pH paper or tape. Make sure the floors pH reading ranges between 5-9 to ensure adhesion. The testing of concrete for alkalinity can show the amount of alkalinity only at the time the test is ran, and cannot be used to predict long-term conditions.

Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for a floor coating's installation. The calcium chloride tests should be conducted in accordance with the latest edition of ASTM F 1869, *Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*. When running a calcium chloride test, it is important to remove any grease, oil, curing agents, etc. so accurate readings can be obtained. A rate of 3 lbs/1000 ft<sup>2</sup>/24hr period or less is an acceptable amount of vapor pressure the BDC 9510. If the reading is any higher, please consult your B.D. Classic Salesman for further instructions.

Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or all together failure of the coating system. Testing is the responsibility of the applicator. B.D. Classic bears no responsibility for failures due to any of the above conditions.

#### **Surface Preparation**

**Over Concrete:** Shotblasting is the preferred method for preparing concrete when applying epoxy and urethane coatings. When using other methods, prepare the surface so that the product will soak in and properly bond.

**Over Epoxy:** Apply directly over new epoxy within 24 hours of epoxy application. When applying over existing epoxy or CRU that has been cured for more than 24 hours, sand the surface with 100 grit sand paper, remove debris and wipe with acetone just before new application.



### **Priming**

For indoor use, substrate can be primed by using BDC 3300 or 1200 epoxy floor coatings. Primer coat should be troweled smooth and backrolled at 200-250 sq ft per gallon to help avoid pinholes. Apply 1 or 2 coats of primer to achieve the proper build. Read individual product information sheets.

If applying outdoors, use 9510 as a sealer coat first over the substrate by cutting with up to 25% acetone. Apply very thin.

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### **Mixing**

Before application, BDC 9510AM CRU A-Side and B-Side should be pre-mixed in their individual containers. Add 1 part of the A-Side to 1 part of the B-Side while mixing, using a mechanical mixer (Jiffy Mixer) at low to medium speeds. For proper leveling purposes, add one pint (16 oz) of acetone to mix. Mix until a homogeneous mixture and streak-free appearance is attained (at least 3 minutes) and frequently stir to keep uniform color during application. Use care to scrape the sides of the container to ensure that no unmixed material remains.

This product can be thinned at a maximum of 1 quart of acetone to stay on proper ratio as a topcoat.

When applying as a clear sealer directly on concrete, acrylic cement, or acid stained concrete, it is recommended to thin the CRU up to 50% with acetone. Thinning will aid in penetration, help avoid puddles and help avoid bubbles and unevenness. Make sure to properly neutralize floor if acid stained.

### **Application**

Coating over epoxy: The CRU material may be sprayed, rolled or brushed. Apply BDC 9510AM CRU within 24 hours after the epoxy is applied. Immediately after mixing, spread a strip of the batch onto the surface along the edges where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a 3/8" non-shed, solvent resistant roller cover. Apply quickly and do not over roll, as product will begin to "tack-up" as the air begins to cure it. Thinning with 16oz acetone per 1 gallon CRU will help facilitate installation.

As a sealer over concrete: Apply as above making sure to thin with up to 50% acetone.

Coating over CRU: Re-coat if needed within 24 hours of application to insure adhesion. If a delay occurs, it is recommended that the surface be lightly sanded and wiped with acetone just before reapplication.

### **Maintenance:**

Cleaning the CRU is best done by mopping surface with mild soap and water or a mild detergent.

For best appearance, B.D. Classic recommends resealing the surface every 3-4 years. Reseal by lightly sanding existing coating, cleaning surface, and applying CRU over dry surface using above application specifications

### **Limitations**

- Do not apply in temperatures below 50°F or above 90°F.

- Do not apply unless temperature is 5° above the dew point or if rain is expected within 24 hours.
- Do not apply on damp or moist surface as it will whiten and may cause delamination.
- Do not allow any BD Classic products to freeze.
- Always apply on a test area before starting actual job.
- Prior to coating previously sealed surfaces, do a small area to test for adhesion.
- Shelf Life of this material is 12 months from the date of manufacture. (See batch number for manufactured date)
- B.D. Classic recommends the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards.
- For use as an Industrial Maintenance Coating, Concrete Masonry Sealer, or Faux Finish Coating ONLY in the South Coast Air Quality Management District (SCAQMD).
- Not for use in residential garage floors in SCAQMD
- OK for use in residential garages in CARB, OTC, and rest of United States
- Please become familiar with local Air Quality laws and regulations prior to applying this coating. B.D. Classic bears no responsibility for improper usage.

### **Clean Up**

Uncured material can be removed with a solvent. Cured material can only be removed mechanically. All empty containers must be disposed of according to local, state, and federal regulations.

### **Warranty**

B.D. Classic Enterprises guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. B.D. Classic makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact B.D. Classic.



**Technical Data**

	Test Method	Results
Shelf Life		6 months
Mixing Ratio by Volume A:B		1:1
Dry Film Thickness per Coat:	ASTM D-3363	3-5 mils
Tear Resistance DieC	ASTM D-1004-66	270 pli
Tensile Strength	ASTM D-412	3980 psi
Ultimate Elongation	ASTM D-412	60%
Gloss (60 deg)	ASTM D-823	90%
Volume Solids	ASTM D-2697	74% by volume
VOC	ASTM D 2369-81	100 g/l
Pot Life (75±3oF)		60 minutes
Recoat Time		7 hrs (min) -24 hrs (max)
Taber Abrasion	ASTM D-4060-84	42.7 mg Loss, C17 Wheel, 1000g Load, 1000 Cycles
Impact Resistance	ASTM D-2794-84	Inch-pounds Direct 160 Reverse 160
Pencil Hardness	ASTM D-3363-84	3-H
Viscosity at 75 F(24 C) 50% RH		A-SIDE 210 cps B-SIDE 1170 cps
Weight		A-SIDE 9.4 lbs/gal B-SIDE 9.3 lbs/gal
Flash Point		A-SIDE <100 F B-SIDE <100 F
MEK Resistance		No effect after 100 rubs
Chemical and Solvent Resistance (4 Hour Spot Test, Covered)		
Skydrol B-4		No Effect
Hydraulic Fluid #83282		No Effect
25% Nitric Acid		Blistered
37% Hydrochloric Acid		Lifted Film
50% Sulfuric Acid		Stain
50% Sodium Hydroxide		No Effect
10% Acetic Acid		No Effect
MEK		Slight Swelling
Xylene		No Effect
40 Day Test Covered		
Skydrol B-4		No Effect
Hydraulic Fluid #83282		No Effect

