



## Product Information

### BDC 9510S SATIN CRU

### Chemical Resistant Urethane – Satin Finish

#### Description

B.D. Classic 9510S CRU is a two component, high solids, solvenated, aliphatic polyester polyurethane with a Satin Finish. 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.

#### Uses

B.D. Classic 9510S Satin 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 9510S CRU as a coating over B.D. Classic waterbased and 100% solids epoxy primers as well as over all of our epoxy floor coatings. BDC 9510S CRU is also used as a topcoat on a variety of other substrates such as Waterproofing Concrete or Masonry, Faux Finish Coating Systems, Industrial Maintenance facilities and Acid Stained Concrete Flooring. Use 9510 CRU on Industrial Floors, Commercial Garage Floors, Decorative Concrete Floors, Restaurant Floors, Food Processing Facilities, Automotive Service Areas.

#### Advantages

- VOC < 100 g/l
- Chemical Resistant
- Satin Finish
- Impact & Abrasion Resistant
- Aliphatic Polyester Polyurethane
- Versatile - Spray, Roll or Brush

#### Coverage

300-450 sf per gal as a coating

#### Packaging

1 gallon kits premeasured in 2 - 1 gallon cans  
(1/3 gallon part A and 2/3 gallon part B)

#### Colors

Clear - Satin Finish

#### Inspection

Surface must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion.

Do not use as a sealer directly over a porous substrate. If applying over concrete, make sure to seal surface with 1 coat of BDC 9510 Gloss CRU prior to applying the Satin finish. Flattening agent is a powder and if allowed to penetrate too deep into a substrate, it will leave a hard

white residue.

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

As a sealer over concrete: Do not apply 9510S Satin directly over concrete or overlays. Make sure to prime the surface first using 9510 CRU Gloss or other approved sealer. The flattening agents in BDC 9510S Satin can leave hard white substance if it is allowed to penetrate too deep into a porous substrate.

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 Vapor Seal or 1200 epoxy floor coatings. For outdoor use, use BDC 9510 Gloss CRU as a primer before applying the 9510S Satin.

Apply 1 or 2 coats of primer to achieve the proper build. Read individual product information sheets.

#### Mixing

Before application, B.D. Classic CRU A-Side and B-Side should be pre-mixed in their individual containers. Add 1 part of the A-Side to 2 parts of the B-Side while mixing, using a mechanical mixer (Jiffy Mixer) at low to medium speeds. *Add up to one quart (32 oz) of acetone (or xylene where legal) to mix to help with flow.* Mix until a homogeneous mixture and streak-free appearance is attained (at least 3 minutes). Use care to scrape the sides of the container to ensure that no unmixed material remains. Stir frequently to keep uniform color and flattening agent in suspension during application.

#### Application

Coating over epoxy: The 9510S CRU material may be rolled or brushed. Apply B.D. Classic 9510S 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: **Do Not Use Directly Over Concrete.** Always put down a gloss primer (i.e. 9510 Gloss) first before application of the 9510 Satin.

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		1:2
Dry Film Thickness per Coat:		3-5 mils
Tear Resistance DieC	ASTM D-3363	270 pli
Tensile Strength	ASTM D-1004-66	3980 psi
Ultimate Elongation	ASTM D-412	6%
Gloss (deg)	ASTM D-412	25-30
Volume Solids	ASTM D-823	52% by volume
VOC	ASTM D-2697	<100 g/l
Pot Life (75±3oF)	ASTM D 2369-81	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

