



Product Information

BDC 9500S SATIN CRU

Chemical Resistant Urethane – Satin Finish

Description

B.D. Classic 9500S 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

BDC 9500S 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 9500S as a coating over B.D. Classic waterbased and 100% solids epoxy primers as well as over all of our epoxy floor coatings. Use 9500S on Industrial Floors, Garage Floors, Decorative Floors, Restaurant Floors, Food Processing Facilities, Automotive Service Areas.

Advantages

- SCAQMD VOC Compliant
- 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

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 72 hours 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 3.5lbs/1000 ft²/24hr period or less is an acceptable amount of vapor pressure for an epoxy flooring installation. 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.

As a sealer over concrete: Do not apply 9500S directly over concrete or overlays. Make sure to prime the surface first using 9500 CRU Gloss or other approved sealer. 9500S can leave hard white substance if it is allowed to soak into a substrate too much.

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. For outdoor use, use BDC 9500 Gloss CRU as a primer before applying the 9500S Satin. Primer coat should be troweled smooth and backrolled to help avoid pinholes. 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.

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.

Application

Coating over epoxy: The 9500S CRU material may be rolled or brushed. Apply B.D. Classic 9500S 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. 9500 Gloss) first before application of the 9500 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.
- Opened material must be used within 2 days.
- 1 gallon must cover at least 300 sf on rough surface or 400 sf on smooth to properly cure.
- Strong solvent smell, use in well ventilated areas.
- Caution CRU is Flammable and Hazardous, please read MSDS sheet before use.
- Do not apply over 10 Series or other water-based acrylics.

Clean Up

Equipment should be cleaned with environmentally safe solvent immediately after use.

Technical Data

	Test Method	Results
Shelf Life		6 months
Mixing Ratio by Volume A:B		1:2
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	65% 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