



# SB Urethane Data Sheet

Part # SBU-CL, SBU-CO

**DESCRIPTION:** Concrete Solutions® SB Urethane is a two component, high solids, aliphatic polyurethane, formulated as a high performance, VOC compliant topcoat sealer. It can be used for interior and exterior applications and provides a durable, flexible, abrasion resistant finish with excellent resistance to a wide range of chemicals. It is used strictly as a topcoat sealer and should always be applied over the proper prime coat depending on the application. It can be applied over WB Epoxy, Epoxy 200, Epoxy 600, Acrylic Urethane and as a topcoat over the Color Flake and Tuff-Grit Flooring Systems. **Do not apply directly over Polymer Concrete, Stamped Concrete Sealer, Sealcoat 1000 or Colorcoat 100.** For indoor jobs over epoxy flooring applications and over Color Flake floors use SB Urethane for the best results. If desired, a special accelerator can be added to the SB Urethane for a faster cure time. For most outdoor applications, especially in hot desert climates, use Acrylic Urethane for the best results.

**TYPICAL USES:** SB Urethane is most commonly used as a topcoat protective sealer for warehouse floors, airport hangars, parking garages, automotive service centers, showroom floors and in areas with high traffic where extra wear resistance is required. It is used over the Color Flake/Quartz and Tuff-Grit Flooring Systems for interior jobs and garages to provide maximum durability, gloss retention, easy to clean, and stain resistance.

**FEATURES & BENEFITS:**

- Excellent abrasion and chemical resistance
- Can be applied by brush, roller or airless sprayer

CHEMICAL PROPERTIES:	Test	Result
Viscosity, cps		500
Solids by Weight		59% : 62% (pigmented)
Volatile Organic Compounds (clear & pigmented)		2 lbs/gal (250 g/l)
Mix Ratio, parts per volume		2A (resin) : 1B (hardener)
Pot Life		1 hr @ 70°F (21°C), 30 min @ 90°F (32°C)
Recoat		10 – 12 hrs
Dry to Touch		4 – 6 hrs @ 75°F
Walk on Time (light foot traffic)		24 hrs
Full Cure		7 days
Coverage Rate per Gallon		250 – 300 sqft @ 2 mil DFT (3 mil WFT) 150 sqft (over TuffGrit granules)
Recommended Application Temperature		≥50°F (10°C)
Color		clear, 8 standard colors
Shelf Life - unopened containers		24 months (when stored at 50 – 80°F)

TYPICAL PHYSICAL PROPERTIES:	Test	Result
Hardness (Konig)	-pendulum	ASTM D-256 122
Impact Resistance (in/lb)		ASTM D-2794 120 dir/rev
Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight		ASTM D-4060 69
Flexibility		ASTM D-222 passes 1/8 in
60° Gloss		90 – 95

**MOISTURE VAPOR TESTING:** All concrete floors not poured over a proper moisture barrier are subject to possible moisture vapor transmission or hydrostatic pressure problems. These problems can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, a moisture test is recommended to ensure that moisture content meets industry recommended standards.

**SURFACE PREPARATION:** The surface must be clean and sound, free from oil, dirt, waxes and any other contaminants that may interfere with bonding. Some methods include shot-blasting, or scrubbing with detergent, acid washing, neutralizing, rinsing and wet/dry vacuuming. Do not apply SB Urethane directly over concrete. Apply only over properly primed or previously coated surfaces. For going over an existing epoxy or urethane coating, in good condition, use a floor polisher machine with a sanding disk attachment and #80 grit sandpaper, to lightly

**CONCRETE SOLUTIONS® SB URETHANE (continued):**

abraid the surface. If more than one coat of SB Urethane will be applied, the second coat should be applied within a 24 hour period after the first. After 24 hours of curing, the first coat will need to be sanded before applying the second coat, to insure proper adhesion. [For more information on surface preparation, see the Products Manual].

**MIXING INSTRUCTIONS:** Mix by volume 2 parts A [resin] to 1 part B [hardener] using a slow speed drill and mixing paddle. While mixing, scrape the sides and bottom of the mixing container to achieve a uniform consistency. Mix only the amount of material that can be used in 30 minutes. In hotter temperatures mix smaller batches of 1 ½ gallons at a time. When using SB Urethane color version, always mix part A separately before adding part B to insure color uniformity. If thinning is required, up to 10% M.E.K. can be added for easier workability or when using an airless sprayer.

**APPLICATION INSTRUCTIONS:** Apply by brush, roller or airless sprayer at a coverage rate of 250 – 350 sq. ft. per gallon. Use a good quality 1/4" – 3/8" nap roller cover that will not leave roller hairs behind. For aggregate filled flooring systems or color flake systems, SB Urethane may be applied heavier at 250 sq. ft. per gallon, if desired, to fill in some of the voids between the aggregate or flakes.

**NOT RECOMMENDED FOR:** Do not apply on unprimed surfaces. Do not apply directly over Polymer Concrete, Stamped Concrete Sealer, Sealcoat 1000 or Concrete Colorcoat. The best urethane to apply over Polymer Concrete and Concrete Colorcoat is Concrete Solutions Acrylic Urethane.

**CHEMICAL RESISTANCE (ASTM D-1308 24 HOUR IMMERSION):**

Motor Oil .....	no effect	Hydraulic Fluid #83282 .....	no effect
Gasoline .....	no effect	Skydrol B-4 .....	no effect
Brake Fluid .....	no effect	Transmission Fluid .....	no effect
Whiskey .....	no effect	Urine .....	no effect
25% Hydrochloric Acid .....	no effect	Blood .....	no effect
25% Sulphuric Acid .....	no effect	Black Ink .....	no effect
50% Sodium Hydroxide .....	no effect	Xylene .....	no effect
25% Acetic Acid .....	no effect	MEK .....	film softened
25% Nitric Acid .....	film blistered	Mineral Spirits .....	no effect

**COLOR OPTIONS:** Available in clear and 8 standard colors: light gray, medium gray, dark gray, concrete gray, mojave sand, adobe tan, baja red and greenstone. Limited custom colors are available by special order.

**HOW SUPPLIED:** SB Urethane is packaged in 1.5 and 3 gallon kits for convenient use in a 2:1 mixing ratio.

**STORAGE:** ≥50°F (10°C)

**SLIP/FALL PRECAUTIONS:** Concrete Solutions recommends using slip resistant granules in all outdoor applications where the SB Urethane will be used as a topcoat sealer and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules #80 grit or courser may be broadcast into the prime coat to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Concrete Solutions or its sales people will not be responsible for injury incurred in a slip/fall accident.

**WARNING:** The SB Urethane is combustible and should be kept away from open flames. Turn out all pilot lights. Wear the proper breathing mask in areas with poor ventilation. Read Material Safety Data Sheet before using. For professional use only!

**SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)**

Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

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