

Concrete Solutions - 3904 Riley St. - San Diego, California 92110 - Ph. (800) 232-8311 - Fax (619) 297-3333

**DESCRIPTION:** Ultra Surface SB Urethane is a two component, high solids, aliphatic polyurethane, formulated as a high performance, V.O.C. 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 Ultra Surface WB Epoxy, Epoxy 200, Epoxy 600, Acrylic Urethane and as a topcoat over the Ultra Surface Color Flake and Tuff-Grit Flooring Systems. **Do not apply directly over Ultra Surface Polymer Concrete, Stamped Concrete Sealer, Sealcoat 1000 or Colorcoat 100.** The best urethane to apply over Ultra Surface Polymer Concrete and Colorcoat 100 is Ultra Surface Acrylic Urethane. If desired a special accelerator can be added to the Ultra Surface SB Urethane for a faster cure time. SB Urethane is available in clear and eight standard colors. For most outdoor applications, especially in hot desert climates, use Ultra Surface Acrylic Urethane for the best results. For indoor jobs over epoxy flooring applications and over Colorflake floors use SB 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 Ultra Surface Color Flake and Tuff-Grit Flooring Systems for interior jobs and garages to provide maximum durability, gloss retention, cleanability, and stain resistance.

**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 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 Ultra Surface 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 Ultra Surface 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.

## ULTRA SURFACE SB URETHANE

### Technical Information

#### Physical Properties

|  |                            |
|--|----------------------------|
| Mixing Ratio   | 2 parts A to 1 part B      |
| Coverage Rate  | 250-350 sq. ft./gallon     |
| Solids Content, Pigmented  | 62% [by weight]            |
| Solids Content, Clear  | 59 [by weight]             |
| Application Temperature  | 50 degrees or above        |
| Pot life [70 degrees]  | 1 hour                     |
| Pot life [90 degrees]  | 30 minutes                 |
| Dry to Touch (75 degrees)  | 4-6 hours                  |
| Recoat Time  | 10-12 hours                |
| Light Traffic  | 24 hours                   |
| Full Cure  | 7 days                     |
| Viscosity [cps]  | 500 average                |
| Gloss [60 degrees]   | 90-95                      |
| Hardness [Konig]   | 122                        |
| Tabor Abrasion [1000 gm. load 1000 cycles, CS 17 wheel]                      | 69 mg. loss                |
| Flexibility [ASTM D-222]   | passes 1/8 inch            |
| Impact Resistance [ASTM D-2794]  | passes 120 in./lb. dir/rev |
| V.O.C., Pigmented  | 250 grams / liter          |
| V.O.C., Clear  | 250 grams / liter          |
| Shelf Life   | 2 years                    |
| [When stored in temperatures between 50-80 degrees in un-opened containers.] |                            |

#### Chemical Composition

Saturated polyester crosslinked with aliphatic polyisocyanate.

#### Colors

Available in clear and 8 standard colors.

#### Limitations

Must be used over the proper primer depending on the application. Do not use on un-primed substrates.

**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.

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

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

**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 users 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.

**MOISTURE VAPOR TESTING:** All concrete floors not poured over a proper moisture barrier, are subject to possible moisture vapor transmission or hydrostatic pressure problems which 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, the customer should be informed of this potential problem and given the option to have a qualified moisture testing company perform calcium chloride test to give the proper recommendations.

**WARNING:** Material is combustible. Extinguish all flames, pilot lights and electric motors until all vapors are gone and the coating is hard. The vapor is harmful. Use only with adequate ventilation/or appropriate cartridge-type respirator. Avoid contact with skin; wear protective gloves. Read Material Safety Data Sheet before using.

**WARRANTY INFORMATION:** Concrete Solutions 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. Concrete Solutions 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.