



QC Surpro SB

For Professional Use Only

QC Surpro SB (Solvent-based) Product Information Bulletin 19.S0306P

QC SURPRO SB

A two-part, solvent-based polyurethane that forms a high-solids coating, QC SURPRO SB preserves and protects any interior above-grade concrete, masonry or stone (SB stands for solvent-based). This product meets federal VOC regulations and is highly resistant to most harsh chemicals (solvents, gasoline, etc.). QC SURPRO SB is the most durable, soil-resistant and chemical-resistant barrier coating of the QC sealers.

Uses and Benefits

- QC SURPRO SB is an excellent coating for all interior architectural concrete surfaces.
- This product is ideal for high-traffic areas like interior lobbies, food service areas and porte cochères. QC SURPRO SB is also well-suited for concrete countertops. The product is compatible with all stone and masonry surfaces.
- QC SURPRO SB will inhibit the passage of water or any other liquid, retard efflorescence, and will resist peeling, flaking, blistering or discoloring of properly prepared substrates. QC SURPRO SB inhibits the growth of mold and mildew.
- QC SURPRO SB resists tire marking.

Before Any Application

- 1. Surface preparation:** When using this solvent-borne sealer, your surface must be structurally sound and clean—free of dirt, grime and other foreign substances like oils, silicones, all other waterproofing materials, form release agents, curing and parting compounds, and any sign of efflorescence. Surface also must be completely dry before application. If your surface is not clean or completely dry, the sealer may turn white or hazy, or the sealer may fail to form a proper film. If you need to properly prepare surface, follow the steps listed for “Application to Existing or Old Concrete.”
- 2.** If excessive moisture in the concrete is suspected, determine the extent of the problem by using a QC MOISTURE TEST KIT* before applying QC SURPRO SB. This kit will test for moisture on interior surfaces according to ASTM D 4263 standards. (Contact QC CONSTRUCTION PRODUCTS to order one kit or a three-pack kit. Individual items—chloride packets, chloride containers, and weight rings—from the QC MOISTURE TEST KIT* are also sold separately. QC pH Pencils and digital gram scales are also available. See contact information for QC CONSTRUCTION PRODUCTS at the end of this bulletin.)
- 3.** The surface must have sufficient profile for proper adhesion. Hard troweled burnished concrete must be chemically or mechanically prepared to promote proper adhesion. QC requires all surfaces to be sealed with SURPRO SB meet The International Concrete Repair Institutes concrete surface profile #2. QC CON-CLEAN*, Muratic acid or mechanical grinders or burnishers can be used to achieve this level of surface profile. Refer to ICRI.org for more information on recommended methods for surface profile.
- 4.** The following mixing instructions for QC SURPRO SB must be strictly adhered to. Add one part (by volume) QC SURPRO SB Part B (cure) to one part QC SURPRO SB Part A (resin) in an open container. Mix well before using. DO NOT mix more sealer than can be used in a 60–90 minute period.
- 5.** Before applying product, test QC SURPRO SB in an inconspicuous area for desired results. If applying to a painted surface, it is also important to test in an inconspicuous area to prevent attack of sensitive and/or fresh paints. If in doubt about application, contact QC CONSTRUCTION PRODUCTS (see contact information at the end of this bulletin).
- 6.** Do not apply QC SURPRO SB if the surface or ambient temperature is below 45 °F, above 95 °F, or if the temperature is expected to fall below freezing (32 °F) within the 24-hour curing cycle.
- 7.** QC SURPRO SB does not require a primer prior to application. If however a primer coat is specified, diluting SURPRO SB 50% with Acetone or Xylene for the first application is sufficient as a primer.

Application to New Concrete

- 1.** QC SURPRO SB should be applied only after concrete has fully cured, approximately 28 days.
- 2.** After mixing, let stand for 5 to 10 minutes (induction time) to allow mixed product to “relax.” Product will thin slightly and become easier to apply after induction time. DO NOT mix more sealer than can be used in a 60-90 minute period. Apply the sealer uniformly maintaining a wet edge.
QC recommends using a lambswool applicator or T-bar spreader followed by a spiked roller to apply SURPRO SB.
- 3.** Coverage will vary with porosity of surface but will average 300–500 square feet per gallon. Two coats of QC SURPRO SB are generally recommended to achieve a 4–7 millimeter thick membrane. The second coat must be applied within 4–8 hours after the first coat to ensure proper adhesion.
- 4. Important:** When applying QC SURPRO SB, do not allow the sealer to puddle. Apply the sealer as uniformly as possible, without leaving either spaces or puddles. Thin applications, as described above, will give better results than one single, heavy application. Too thick of an application may result in improper adhesion of QC SURPRO SB.
- 5.** For tinting options, consult QC CONSTRUCTION PRODUCTS.

Application to Existing or Old Concrete

- 1.** As noted, when using QC SURPRO SB, your surface must be structurally sound and clean—free of dirt, grime and other foreign substances like oils, silicones, all other waterproofing materials, form release agents, curing and parting compounds, and any sign of efflorescence. Your surface must be thoroughly cleaned, rinsed and allowed to completely dry before application. If your surface is not clean or completely dry, the sealer may turn white or hazy, or the sealer may fail to form a proper film.
- 2.** If stripping off old sealer is necessary, use QC SEAL STRIPPER* or QC INTERIOR FLOOR STRIPPER* or consult QC CONSTRUCTION PRODUCTS.
- 3.** To clean surface, use one part QC CONCRETE DEGREASER AND NEUTRALIZER* to eight parts water. On smooth surfaces, scrub in with automatic scrubber or use a low-speed buffer equipped with scrubbing pads or brushes. After scrubbing surface, absorb QC CONCRETE DEGREASER AND NEUTRALIZER* and rinse with clean water. Rinse thoroughly and allow to dry before application. On rough surfaces or textured concrete, use the same equipment as with smooth surfaces but rinse with pressure-washer. The surface must have sufficient profile to properly adhere. Hard-troweled, burnished concrete must be lightly etched using QC CON-CLEAN* prior to application of QC SURPRO SB.
- 4.** If applying over a previous application of QC SURPRO SB that is more than eight hours old, sand surface with a 120-grit screen disk and clean with QC FLOOR CLEANER* diluted to two ounces per gallon of water. Rinse thoroughly and allow to dry before application.
- 5.** If applying sealer to existing concrete, paint or other coating, test sealer prior to application in an inconspicuous area to ensure compatibility. If in doubt about surface of existing concrete, consult QC CONSTRUCTION PRODUCTS.
- 6.** After cleaning and testing surface, follow application listed in the “Application to New Concrete” section.

Drying Times

- **Note** – Drying times below will vary depending on surface porosity, temperature, humidity and local conditions.
- **Recoat** – Surface can be recoated four to eight hours after each application.
- **Light Traffic** – Light traffic can be allowed eight to twelve hours after final coat.
- **Vehicle Traffic** – Vehicle traffic can be allowed one to two days after final coat, depending on temperature.

Coverage Guide

■ **Note** – Actual coverage may vary depending on the texture, age and condition of the concrete, the application method, and other local conditions. We recommend applying two coats of QC SURPRO SB.

■ **Smooth Finish, Per Coat** – Material usage, per coat, is approximately 300–500 square feet per gallon.

■ **Rough or Broom Finish, Per Coat** – Material usage, per coat, is approximately 250–400 square feet per gallon.

Package Sizes

- 2-gallon kit
- 10-gallon kit

Technical Data

- Color Clear (unless tinted to QC specification colors—see below)
- Odor Sweet
- Solids Content 67%
- Specific Gravity 1.027 when mixed
- Density 8.56 pounds per gallon when mixed
- Flash Point 82 °F
- VOC Content..... Less than 340 grams per liter
- Mix Ratio 1:1 by volume
- Viscosity 300–500 centipoise when mixed
- Opacity Clear
- Pot Life 90–120 minutes
- Shelf Life Sealed, unopened product is under warranty for one year
- Water Resistance Excellent
- Chemical Resistance Excellent
- Satin Finish 35 (after addition of AC-696; ASTM D 2047)

Applicable Standards

QC SURPRO SB complies with the following regulations and requirements:

- ASTM D 2047 – exceeds slip-resistance requirements
- ASTM D 523 for gloss (QC SURPRO SB is 99)
- QC SURPRO SB conforms to all California air quality requirements

Colors

Using QC SOLVENT-BASED TINT CONCENTRATES*, QC SURPRO SB may be tinted to match any color shown on any QC color chart or may be tinted to match any custom color. Because tint colors may vary slightly from batch to batch, be sure to order enough tinted sealer to complete a specific job.

Product Handling

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using product.

Warranty

QC SURPRO SB is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact QC CONSTRUCTION PRODUCTS.

*PLEASE REFER TO CORRESPONDING PRODUCT APPLICATION BULLETINS FOR TECHNICAL AND APPLICATION DATA.

For complete information on all QC products—including product information catalogs, product brochures, color charts, technical specifications, sales aids and more—contact QC CONSTRUCTION PRODUCTS.

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