

SUREBOND



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<http://www.surecretedesign.com/surebond/>

SUREBOND

DESCRIPTION

SureBond is a single component, just add water, cement-based bonding agent specifically developed for **SureStamp** and **Deep Level** (see appropriate TDS). Its only function is to join these products to the host surface (i.e. concrete.) Its high cement content and copolymer agents create the premier bond, while the fine aggregate micro-dowels into the substrate or area to be patched. **SureBond** is packaged with white cement (that may be used with 1 of 30 **Color Packs**) or gray cement.

SURFACE PREPARATION

The principles for surface preparation for **SureBond** are aligned with cement-based overlays placed on concrete and remain constant; the substrate must be:

- 1. Clean:** The surface must be free of dust, dirt, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew and other foreign matter that may serve as a bond breaker.
- 2. Cured:** Any concrete must be sufficiently cured to have sufficient hydration, approximately 7 - 14 days depending on temperatures and humidity.
- 3. Sound:** No system should be placed upon concrete that is flaking, spalling, or has hibernating spalling.
- 4. Profiled:** Proper profile should follow the standard established by the International Concrete Repair Institute (ICRI) Technical Guideline no. 03732 for Concrete Surface Profile (CSP). The established profile is categorized as CSP-1 through CSP-4.
The most common means to properly profile many concrete slabs (especially exterior slabs) is through the use of a pressure washer equipped with a turbo-tip and the use of **SCR** (see **SCR** TDS). Some concrete slabs that are hard troweled or that are not sound may require more aggressive profiling through diamond grinding or shot blasting.

TEMPERATURE/CURE

- Air and substrate surface temperatures shall remain between 50°F (10°C) and 90°F (32°C) during and within 48 hours of placement.
- No precipitation should occur during or within 48 hours of placement.
- Avoid high heat and / or windy conditions. Attempt to minimize application during such harsh conditions by working during cooler hours. Keep materials shaded prior to mixing, running water until cool, and setting up temporary walls for wind blocks.

APPLICATION

Mixing and handling

Full Bag

- Add 6 qts. water to a 5 gal. (18.9 liter) pail.



PACKAGING

50 pound (22.7 kg) bag

MIXING RATIO

6 -7 qt. (6.6 - 7.1 liter) water to 1 - 50 pound (22.7 kg) bag of **SureBond**
(optional) .5 pound (227 g) **Color Pack** - 30 standard colors (see **Color Pack** TDS)

COVERAGE

1 - 50 pound (22.7 kg) bag of **SureBond**
Varies widely due to profile and porosity of substrate, approximately 300 - 450 ft² (28 - 42 m²) as a slurry coat.

SHELF LIFE

Under normal conditions: when kept dry and moisture free, out of direct sunlight, the shelf life of an unopened bag is (12) months from the date of purchase. Storage must be under roof and off the floor. Rotate inventory to maintain product that is within limits

- Add 1 - **Color Pack** if desired.
- Mix with a handheld concrete mixer, such as an Eibenstock model #EHR 20R or a ½" (12.7 mm) 450 - 600 rpm drill equipped with a cage mixing blade for a minimum of 15 seconds.
- Slowly introduce **SureBond** into the pail with mixer running.
- Scrape side of pail with a margin trowel to ensure all dry product is incorporated into the wet mix.
- Continue to mix for a minimum of 1 minute after all ingredients are combined to achieve a lump-free consistency. Additional water may be added up to a total of 7 qt. (7.1 liter) per 50 pound (22.7 kg) bag.

Small Batches

- For each 4 qt. dry mix add 1.5 qt. water (3.8 liter dry mix add 1.4 liter water)
- Add desired water to an appropriately sized vessel.
- Begin adding dry mix to water while running mixer. Mix with an appropriately sized mixer (from a cordless drill with a "jiffy" style blade to a heavy-duty mixer or ½" (12.7 mm) 450 - 600 rpm drill equipped with a cage mixing blade.)
- Scrape side of pail with a margin trowel to ensure all dry product is incorporated into the wet mix.
- Continue to mix for a minimum of 1 minute after all ingredients are combined to achieve a lump-free consistency. Additional water may be added up to a total of 1.75 qt. water to 4 qt. dry mix (1.7 liter water to 3.8 liter dry mix)

Bond Coat for Patching with Deep Level

- The surface should be saturated, surface dry (SSD or damp, no puddles).
- Apply product by brush or trowel / squeegee over entire area that corresponds to the area to be patched by **Deep Level**.
- While the **SureBond** is still wet, apply **Deep Level** (see **Deep Level** TDS).

Bond Coat for SureStamp

1. The surface should be saturated, surface dry (SSD or damp, no puddles).
2. Pour a generous ribbon of **SureBond** and spread with squeegee over an area that corresponds to the area to be covered by **SureStamp**.
3. While the **SureBond** is still wet, pour the **SureStamp** onto surface (see **SureStamp** TDS).

CLEAN-UP

Before **SureBond** dries; spills and tools can be cleaned up with water.

DISPOSAL

Contact your local government household hazardous waste coordinator for information on disposal of unused product.

LIMITATIONS

For use by trained professionals that have read the complete SDS.

WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufactures/seller's option. Sure-Crete Design Products shall not be liable for cost of labor or direct and/or incidental consequential damages.

CAUTIONS

KEEP OUT OF REACH OF CHILDREN. **Inhalation:** Avoid prolonged breathing of airborne dust, particularly present during mixing. Use NIOSH approved respirator for nuisance if threshold limit values are unsafe. **Skin Contact:** Skin contact may cause irritation. Remove contaminated clothing and wash affected skin with soap and water. Launder clothing before reuse. If symptoms persist, seek medical attention. **Eyes:** Wear safety eye protection when applying. Contact with eyes may cause irritation. Flush eyes with water for 15 minutes. If symptoms persist, seek medical attention.

SAFETY DATA SHEETS

The following are links to all available safety data sheets related to this product:

- [bag-mix-sure-bond-sds.pdf](#)