

## SRI Bond Coat Technical Data Sheet

### 1. Description and Uses

*SRI Concrete Product's Bond Coat* product is a single-component polymer-modified cement based product that is used in a troweled or squeegee fashion, as a base or bond coat under SRI Stampable Overlay or SRI Spray Texture Overlay.

*SRI Bond Coat* comes in either Grey or White Portland Cement bases. The white-based product is designed to accommodate the use of one pound color packs providing integral color through the entire mix. 16 standard colors are available. The grey-based product is left in its natural grey shade or sealed with a pigmented sealer. Either product may be stained.

#### Physical Data (at 75 deg F)

50 lbs. *SRI Bond Coat* with one gallon of water at 1/8-inch depth:

Initial Setting Time	45-120 min.	
Final Setting Time	90-360 min. (1.5 to 3 hrs)	
Yield	0.41 cu. ft.	
Flow (ASTM C 109)	140% (ASTM C 928 min. 100%)	
Expansion % in water (ASTM C 157)	Less than 0.07% (ASTM C928 min. + 0.15%)	
Contraction, with drying (ASTM C 157)	Less than 0.10% (ASTM C928 min. - 0.15%)	
Compressive Strength	ASTM C 109	
3 hours after set	1000 psi (6.9 Mpa)	1000 psi (6.9 Mpa)
1 Day	2450 psi (16.9 Mpa)	2000 psi (13.9 Mpa)
7 Days	4700 psi (32.4 Mpa)	4000 psi (27.6 Mpa)
28 Days	6500 psi (44.5 Mpa)	4000 psi (27.6 Mpa)
Freeze-Thaw	25 cycles: none/negligible	

### 2. Coverage

Coverage: May vary dramatically depending upon use.

Thin, trowel or squeegee application, 1/16-1/8":  
 125-150 sq. ft. (8-9.5 pints water)

NOTICE: this product contains Portland cement and silica. Use NIOSH 95 dust respirator (or better). Wear safety goggles; avoid eye and excessive skin contact. If eye contamination occurs, flush with water for 15 minutes, and seek medical attention.

### 3. Mixing

Add four quarts of water to a clean five-gallon container. Slowly introduce one 50-lb. bag of *SRI Bond Coat* while mixing with an adequate drill equipped with a cage-type mixer. A 450 to 500 rpm variable-speed drill is recommended. Add color packs at this point. Mix thoroughly for at least 3 to 5 minutes paying close attention to potential dry material on the sides and bottom of bucket.

NOTE: The amount of water required may vary slightly due to temperature and humidity, i.e., cool temperatures and/or high humidity requires less liquid solution for equal workability. Also, smaller jobs may only require mixing partial bags of *SRI Bond Coat*.

### 4. Application

Cover or mask all areas requiring protection with tape and paper so that material does not bond to unwanted surfaces.

Dampen concrete before applying bond coat. Concrete **MUST** be damp with no standing water prior to bond coat application. Pour mixed material onto the existing damp slab and trowel or squeegee to approximately 1/16" or 1/8" thickness. This will fill in any slight inconsistencies in the concrete surface and leave a flat, even base that is essential for a successful application.

NOTE: Bond coat coverage rates for texture are generally less than bond coat coverage rates for a stamped overlay. Stamp mix material will fill small inconsistencies in the surface. Texture coat must be applied slightly thicker and much smoother than that of stamp bond coat to help hide surface inconsistencies.

After the bond coat is dry, (this should occur within two hours depending on climate) rub down any high spots or trowel marks with a brick or shave using a trowel. Broom and blow off surface to remove loose material.

### 7. Sealing

Two coats of *SRI Solvent Based Clear Sealers 25%* or 30% or *SRI Acrylic WB 25-percent Low-VOC Concrete Sealer* are suggested to complete the

project. Do not apply below 45 deg F.. To apply with a roller, use a solvent resistant, 1/2-inch nap. Apply one thin coat forcing the sealer into the low areas of the surface. Allow the sealer approximately 12 hours to dry then repeat the process (for second coat use non-skid modified sealer if desired). To apply with an airless sprayer, use a reversible tip and spray evenly onto the concrete surface.

Allow 24 hours before allowing foot traffic on the sealed area and allow at least 72 hours before allowing vehicle traffic on the area.

**CAUTION:** SRI solvent-based sealers are flammable.

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## **6. Clean-Up**

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Equipment and tools should be cleaned immediately after use. Water may be used to clean *SRI Bond Coat* from tools. After product has dried, it may be necessary to grind excess material to remove.

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## **7. Warranty**

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**WARRANTY DISCLAIMER:** The information contained within is accurate to the best of our knowledge. SRI has no control over the jobsite use of it's products, therefore no warranty or guarantee is implied nor can be assumed beyond the replacement of product. No person has the authority to override this warranty, without written consent from SRI Concrete Products.