



## COLORCURE® Concrete Curing Compound and Sealer

COLORCURE Concrete Curing Compound and Sealer is an interior/ exterior quality concrete curing and sealing compound designed for use on existing or freshly placed concrete where uniform color and stain resistance is required immediately after placement. It meets ASTM C 309 requirements for Liquid Membrane-Forming Compounds. The VOC is <50 g/L (0.41 lbs./gal.)

TECH-DATA BULLETIN TD-1680.12 Rev. 11.25.2014

### 1. Product Description:

COLORCURE® Concrete Curing Compound and Sealer is a concrete curing and sealing compound designed for use on existing or freshly placed concrete where uniform color and stain resistance is required immediately after placement. It enables contractors to deliver the consistent appearance needed to increase owner confidence of a job well done. COLORCURE must always be tinted to match the color of the fully cured concrete to which it is to be applied.

As freshly placed concrete cures, its color will vary with differences in surface moisture. Concrete curing in shaded areas or in the center of large slabs will surface dry slower than those exposed to sunlight or closer to form edges. If salt content of aggregates are high, efflorescence can bloom to the surface and lighten colors. These visual differences can be long lasting, and raise questions about the quality of the concrete placement. When COLORCURE is tinted to match the final color of the cured concrete, COLORCURE enables contractors to immediately deliver jobs that are uniform in color and appearance.

COLORCURE is formulated to meet ASTM C 309 requirements for Liquid Membrane-Forming Compounds for Curing Concrete. It works to prevent the spider and mud-cracking of concrete freshly placed into warm, windy, or dry environments, and eliminates the need for messy and expensive sprinklers, wet burlap, or plastic curing sheets. It resists unsightly efflorescence. When dry, COLORCURE seals surfaces to resist staining from other construction materials and common food products. COLORCURE is an excellent tool to visually blend older and freshly placed concrete and concrete patches into one uniform looking surface. COLORCURE may be applied by brush, roller, or spray equipment.



Floor coating and finishing material as to slip resistance only. 6L90

### 2. Colors:

COLORCURE Concrete Curing Compound and Sealer is available in all standard colors of CHROMIX® Admixtures for Color-Conditioned® Concrete. Custom colors are available upon request. Contact your Scofield representative for pricing and order minimums.

### 3. Artistic Effects:

Use LITHOCHROME® Tintura™ Stain or LITHOCHROME® Chemstain® Classic when more permanent artistic effects are desired.

### 4. Coverage:

Coverage will depend upon the method of application, and the surface porosity and texture of the substrate. Typical coverage on flat finished concrete is 200 – 400 sq. ft./gallon (4.5 – 10 m<sup>2</sup>/L). Porous, broom or textured finishes will require more COLORCURE. DO NOT THIN OR REDUCE! COLORCURE is not a paint.

### 5. Limitations:

COLORCURE Concrete Sealer must only be used on concrete that is above grade or on ground that is well-drained. Do not

use on concrete slabs placed on damp ground, or on concrete that will be constantly exposed to moisture. Do not apply when air or surface temperatures are below 45°F (7°C), or may be so prior to drying. Do not apply when rain, dew, or surface condensation is expected within 4 hours of application. Do not allow material to puddle or build-up in cracks or joints during application. Tint only with COLORCURE Part A tint cups. The use of COLORCURE that is tinted to a color other than a match to the dry and fully cured concrete to which it is applied is not recommended.

COLORCURE is not designed for immersion service or for use on surfaces subjected to reverse hydrostatic pressure. It will not perform properly on surfaces where oil, dirt, prior coating, sealer, or other substances that impede penetration are present. It will not stick to sandy, soft, or heavily eroded surfaces. If any of these are present, COLORCURE may lose adhesion. It is not designed to be a thick film coating, and will not hide surface blemishes, construction errors, or imperfections. Always evaluate COLORCURE on a Jobsite Test Section as described in section 6. *Jobsite Test Sections*.

Textures and Slip Resistance: Before finalizing application technique and sealer system selection, prepare Jobsite Test Sections as described in section 6 and evaluate for adequate slip resistance and SCOF (Static Coefficient of Friction). Do not create slippery floors that are dangerous. Test completed projects to ensure floors are safe.

### 6. Jobsite Test sections:

Prior to general application, representative Jobsite Test Section(s) must be produced and approved for each individual concrete surface, and for each color and sealer combination that will be created. Use Jobsite Test Sections to verify system suitability, surface preparation methods, adhesion, safety, performance, wet and dry slip resistance, application techniques, color, visual appearance, and product coverage. Do not proceed with products, techniques, or finishing systems that do not meet required specifications or meet with site owner approval.

Selected Jobsite Test Sections should be in close proximity to the larger job area, and made from the same concrete ingredients and mix design that will be later be placed. Test sections should be sized to be representative of the finished project, and be produced by the same workers who will place the concrete and apply the curing compound/sealer system. All test sections should be presented to owners for visual and performance approval prior beginning main project areas.

### 7. Packaging:

COLORCURE Concrete Curing Compound and Sealer ships in 1-gallon (3.8L) cans or 5-gallon (19L) pails labeled as Part B that are designed to be colored with Part A tint cups. Smaller premixed Pints are available upon request. Because some colors require less tint material than others, some tint cups are packaged partially full.

### 8. Storage and Shelf Life:

DO NOT FREEZE! Unopened and stored at 40°F to 120°F, COLORCURE has a 2 year shelf life from date of manufacture. Once opened or mixed with a Part A tint cup, the shelf life is one month.



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**9. Preparation and Mixing:**

Prior to combining Part A with Part B, mix each separately until it is uniform. COLORCURE Part B is milk white and will look like a heavy cream prior to tinting. Combine Part A and Part B and mix until it is again uniform consistency and appearance. The material is now ready for use. Some heavier tints will produce more material than the gallon container of Part B will hold. In these cases, products should be mixed together in a clean plastic pail.

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**10. Substrate Preparation:**

When used as a curing compound or membrane, apply COLORCURE when concrete is walkable and all bleed water has either reabsorbed into the concrete or evaporated.

When used on older fully cured concrete, surfaces must be dry and clean of all prior sealers, curing compound, oils, or other foreign materials that might prevent penetration or adhesion, and meet a Concrete Surface Profile (CSP) of 1, as determined by the International Concrete Repair Institute, (ICRI), Alexandria, VA. Grind, acid etch, power wash, or scrub surfaces with stiff bristle brushes and strong detergents to remove these undesired materials and any loose concrete laitance that may harm adhesion.

Always rinse older concrete surfaces and allow them to completely dry prior to application. Plan carefully and divide work areas into sections using walls, joint lines, or other stationary features to provide natural stopping points of the application.

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**11. Application:**

Apply COLORCURE Concrete Curing Compound and Sealer by brush, roller, HVLP, airless, or pump-spray application. Always wear protective clothing, goggles, gloves, and particulate respirators. Clean equipment with warm water and detergent immediately after application. Remove overspray immediately with hot water and industrial detergent. Dried material will be difficult to remove. COLORCURE is designed to penetrate surfaces. If applied heavily over tape, it will crawl and stain under the tape. When tape masking is used, spray application of multiple light coats is recommended. As COLORCURE is designed to match the final concrete color, it may first appear lighter than freshly placed concrete.

**Spray applicator Guidelines:**

Airless spray: 1500–2500 psi (10–17 MPa) fitted with a fan tip of 0.013–0.018 inches (0.33–0.46 mm).

HVLP spray: 5–40 psi (35–275 KPa)

**Dry times** will depend upon the selected coverage rate, penetration into the substrate, and weather conditions. At 70°F and 50% relative humidity with an application rate of 400 sq. ft. per gallon (10 m<sup>2</sup>/L), dry to touch and recoat times of 1-2 hours are expected. Avoid foot-traffic for a minimum of 12 hours after final application.

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**12. Cautions:**

WARNING! MAY IRRITATE EYES, SKIN, AND RESPIRATORY TRACT. DO NOT TAKE INTERNALLY. DO NOT BREATHE IN SPRAY MIST. KEEP OUT OF THE REACH OF CHILDREN. First Aid: Eyes—DO NOT RUB EYES. FLUSH IMMEDIATELY WITH WATER. Hold eyelids apart while flushing material out thoroughly with large amounts of water. Skin—Wash thoroughly with soap and water. Remove soiled clothing and footwear and wash before reuse. Inhalation—Move to fresh air. If symptoms develop or if ingested, get medical attention. Wash thoroughly immediately after handling. Close container after each use. In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Do not reuse empty container. Before using or handling, read the *Material Safety Data Sheet and Warranty*.

COLORCURE must never be mixed with LITHOCHROME Chemstain Classic or any other chemical stain. Doing so can produce a dangerous chemical reaction and vapors.

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**13. Availability:**

COLORCURE Concrete Curing Compound and Sealer is marketed internationally through strategically located dealers, and representatives. Scofield offers a complete line of engineered systems for coloring, texturing, and improving performance of architectural concrete. These include coloring admixtures, color hardeners, colored cementitious toppings, stains, curing compounds, sealers, coatings, repair products and texturing tools. Visit the Scofield website at [www.scofield.com](http://www.scofield.com) for further information.

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**14. Limited Warranty:**

L. M. Scofield Company (Scofield) represents and warrants only that its products are of consistent quality and within manufacturing tolerances. NO OTHER ORAL OR WRITTEN REPRESENTATION OR STATEMENT OF ANY KIND, EXPRESS OR IMPLIED, NOW OR HEREAFTER MADE IS AUTHORIZED OR WARRANTED BY SCOFIELD, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Liability for breach of contract, negligence, or on any other legal basis is limited to the lesser of refund or replacement of defective materials. SCOFIELD WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING FOR DELAYS OR LOST PROFITS. Communication of this warranty and its limitations to end users is not the responsibility of Scofield, but should be communicated by those in direct contract with the end user. Any claim regarding product defect must be received in writing within one year from the date of manufacture. No claim will be considered without such written notice or after the specified time interval. The end user shall determine the suitability of the products for the intended use, and assumes all risks and liability in connection therewith.

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**15. Maintenance:**

On walkways, a maintenance application of either COLORCURE, or clear topcoat should be made periodically to replace topcoat that is worn from the surface. All maintenance methods should be tested.



**Suggested Short Form Specification for Curing and Sealing Concrete Flatwork:**

All concrete flatwork designated as colored in the plans and specifications shall receive a cure and seal coat of COLORCURE® Concrete Curing Compound and Sealer in \_\_\_\_\_ color (matching the designated concrete color), manufactured by L. M. Scofield Company, (800) 800-9900, Los Angeles, CA, (323) 720-3000 and Atlanta, GA, (770) 920-6000. COLORCURE® Concrete Sealer shall be applied full strength in accordance with Tech-Data Bulletin TD-1680.



1 800 800 9900 or [www.scofield.com](http://www.scofield.com)

**SCOFIELD PRODUCTS ARE INTENDED FOR PROFESSIONAL USE ONLY**

■ **L. M. Scofield Company customer service:** 1 800 800 9900

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**Eastern Headquarters:** 4155 Scofield Road, Douglasville, GA 30134 **voice:** 770 920 6000 **fax:** 770 920 6060

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