



# LITHOCHROME® Colorwax™ Concrete Curing Compound

LITHOCHROME Colorwax is a concrete curing compound that can be used to improve the visual uniformity of freshly placed concrete. Colorwax meets ASTM C 309 requirements for Liquid membrane-forming compounds for Curing Concrete.

The VOC is <50 g/L (0.41 lbs./gal.)

TECH-DATA BULLETIN TD-1580.12 Rev. 11.25.2014

## 1. Product Description:

LITHOCHROME® Colorwax™ is a concrete curing compound that can be used to improve the visual uniformity of freshly placed concrete and increase owner confidence of a job well done. Colorwax is ideal for exterior concrete intended to remain bare and exposed. Its graceful wear and weathering pattern allows for its dissipation without the appearance of peeling or chipped paint.

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 Colorwax is tinted to match the final color of the cured concrete, Colorwax enables contractors to immediately deliver jobs that are uniform in color and appearance.

LITHOCHROME Colorwax 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 efflorescence. Colorwax may be applied by brush, roller, or spray equipment.

Use Colorwax tinted to a light color to avoid the overheating of concrete surfaces placed in direct sunlight. After curing it can be removed with a floor scrubber or rotary buffer fitted with a stiff bristle brush.

When concrete will later be stained, dyed, or ground and polished, tint Colorwax to a color different from the concrete. This will later help identify when all curing compounds are removed from the surface prior to staining, dying, or polishing. Other coatings will not easily adhere to Colorwax. Remove Colorwax by pressure washing, abrading, or use of coating removers, prior to the application of more durable or artistic stains, topcoats, or sealers.



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

## 2. Colors:

LITHOCHROME Colorwax Concrete Curing Compound 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:

LITHOCHROME Colorwax is designed to be applied in one or two coats to develop a uniform colored surface. IT IS NOT PERMANENT! 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 Colorwax. DO NOT THIN OR REDUCE! Colorwax is not paint.

## 5. Limitations:

LITHOCHROME Colorwax Concrete Curing Compound 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 Colorwax Part A tint cups.

**LITHOCHROME Colorwax 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, Colorwax 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 Colorwax 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:

LITHOCHROME Colorwax Concrete Curing Compound ships in 1-gallon (3.8 L) cans or 5-gallon (19 L) pails that are labeled as Part B. They must be colored with Part A tint cups to complete the product. Premixed pint samples are available upon request. Colors that require less tinting material are packaged with the cup partially full.

## 8. Storage and Shelf Life:

DO NOT FREEZE! Unopened and stored at 40°F to 120°F, Colorwax 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.

## 9. Preparation and Mixing:

Prior to combining Part A with Part B, mix each separately until it is uniform. Colorwax 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.

## 10. Substrate Preparation:

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

**11. Application:**

Apply LITHOCHROME Colorwax Concrete Curing Compound 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. As LITHOCHROME Colorwax 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.

**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*.

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

**13. Availability:**

LITHOCHROME Colorwax Concrete Curing Compound 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.

**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.

**15. Maintenance:**

On walkways, a maintenance application of either Colorwax, may be used periodically to replace material 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 LITHOCHROME® Colorwax™ Concrete Curing Compound 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. LITHOCHROME® Colorwax™ Concrete Curing Compound shall be applied full strength in accordance with Tech-Data Bulletin TD-1580.



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

**Western Headquarters:** 6533 Bandini Blvd., Los Angeles, CA 90040 **voice:** 323 720 3000 **fax:** 323 720 3030

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

[www.scofield.com](http://www.scofield.com)