

LITHOCHROME® ANTIQUING RELEASE



L. M. SCOFIELD COMPANY

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A powdered, colored, bond breaker used when imprinting with mat-type concrete-texturing tools, embossing skins, or rollers to create antique effects with a variegated color.

1. Description and Uses: LITHOCHROME® Antiquing Release is broadcast over the surface of freshly placed colored-concrete hardscapes or interior floors before imprinting with LITHOTEX® Pavecrafters® or other mat-type texturing tools, embossing skins, or rollers. It forms a bond-breaking barrier that helps prevent the tools from sticking to the fresh concrete and marring its fragile surface. During the process, a portion of the colored antiquing release becomes embedded in the surface where it is trapped by the hardening concrete. When the surface is subsequently washed and sealed, an attractive, variegated, mottled, and antiqued appearance is obtained with colors ranging from that of the underlying concrete to that of the antiquing release, with mixtures of the two the most likely.

For best durability and color intensity, a ready-to-use, dry-shake colored hardener is normally used as the primary coloring agent. Both LITHOCHROME® Color Hardener and EMERCHROME® Floor Hardener are recommended to produce permanently colored, freeze/thaw-resistant concrete hardscapes and floors with a dense, hard, durable surface. Their rich finishing paste allows the production of sharp, clear, wear-resistant patterns. EMERCHROME Floor Hardener is normally applied when a heavy-duty, more slip-resistant surface is required for heavy traffic areas. Additional information on color-hardening flatwork is available in the Scofield Tech-Data Bulletins *A-104 LITHOCHROME Color Hardener* and *A-204 EMERCHROME Floor Hardener*.

LITHOTEX Pavecrafters are mat-type imprinting tools that provide greater control of pattern depth and produce a uniform texture over the entire surface of the installation. Additional information about texturing imprinted concrete is available in the Scofield Tech-Data Bulletin *T-404 LITHOTEX Pavecrafters*.

To protect the antiqued appearance from wearing or weathering away over

time, the imprinted concrete must be sealed and maintained with CEMENTONE® Clear Sealer or SCOFIELD® Cureseal™. Initial application of a sealer and periodic maintenance is required. Additional information is available in the Scofield Tech-Data Bulletins *A-764 CEMENTONE Clear Sealer*, *B-204 SCOFIELD® Cureseal-W™*, and *B-604 SCOFIELD® Cureseal-S™*.

When imprinting and texturing concrete or cementitious toppings and an antiqued appearance is not desired, colorless LITHOTEX® Liquid Release should be used. LITHOTEX Liquid Release is an odorless, liquid bond breaker that provides easy release of imprinting or texturing tools. Additional information is available in the Scofield Tech-Data Bulletin *T-604 LITHOTEX Liquid Release*.

Construction joints should be sealed with LITHOSEAL™ Trafficalk-3G™, a high-quality, color-matched joint sealant for areas subject to pedestrian and vehicular traffic. Information about designing and sealing joints is available in Scofield's Tech-Data Bulletin *S-404-3G LITHOSEAL Trafficalk-3G*.

Before using, check with your Scofield Customer Service Representative to ensure that you have the most recent Scofield Tech-Data Bulletins.

2. Limitations: LITHOCHROME Antiquing Release is not intended for use on vertical surfaces or for use as a curing material. It should not be used as the primary concrete-coloring agent, but must be applied over freshly placed color-hardened or integrally colored concrete.

LITHOCHROME Antiquing Release is intended to produce a variegated appearance. Timing, finishing, application and removal techniques, mix design, texture of the imprinted pattern, color combinations, weather, experience in use of the materials, sealing and other factors will significantly affect the amount of antiquing ultimately obtained and the final appearance of the antiqued surfaces. Sample size containers of LITHOCHROME Antiquing Release are available from Scofield for investigational use.

Enough material must be applied so that moisture does not migrate to the

surface, causing the texturing tool or roller to stick. The powdered antiquing release is very finely ground and should not be applied when wind conditions are such that it may drift during broadcasting or be displaced from the surface of the concrete after application. Surrounding areas should be protected to reduce the possibility of staining during application and removal.

The bond formed between the antiquing release and the color-hardened surface is mechanical, not chemical. Initial application of and periodic maintenance with a recommended Scofield sealer is required to seal in the antiquing release and preserve the antiqued appearance over time.

3. Composition and Materials: LITHOCHROME Antiquing Release is a colored, finely powdered material produced by a proprietary manufacturing and intergrinding process. It is formulated to break the bond between mat-type concrete-texturing tools or rollers and the surface of color-hardened concrete while imparting an antiqued appearance. The coloring agents are limeproof and have maximum resistance to the effects of sunlight (UV).

4. Applicable Standards: The coloring materials in LITHOCHROME Antiquing Release conform to ASTM C 979 for color stability. Professional concreting standards and practices, including those published by the American Concrete Institute (ACI) and the Portland Cement Association (PCA), should be followed.

5. Colors: LITHOCHROME Antiquing Release is available from stock in colors approximating selected colors from Scofield's color charts *A-112 LITHOCHROME Color Hardener* and *A-312 CHROMIX® Admixtures for Color-Conditioned™ Concrete*. Due to dissimilarities in composition of materials, these colors are similar to, but not an exact match for colors of the same name that appear on the charts. LITHOCHROME Antiquing Release cannot be formulated in some colors. With sufficient prior notification, custom colors can be designed and are manufactured per quotation. Contact your

Scotfield representative for availability and pricing.

Unique coloring and antiquing effects are produced by using LITHOCHROME Antiquing Release in a different and normally darker color than that of the concrete surface. If less antiquing is desired, a color that is more similar to the color of the concrete should be chosen.

6. Sizes: LITHOCHROME Antiquing Release is available in 30-pound (13.6 kg) pails. Sample sizes of LITHOCHROME Antiquing Release for investigational use are available on request.

7. Coverage: Coverage will vary depending on timing, method of finishing prior to imprinting, application techniques, effect desired, tools used, and job or other conditions. For most applications, the coverage rate is approximately 3–4 pounds per 100 square feet (1.5–2.0 kg/10 m²). A more exact coverage rate can be determined by casting representative jobsite samples as described in *10. Jobsite Samples* and noting the amount of material needed per square foot.

8. Shelf Life: Under normal conditions and when kept dry, the shelf life of LITHOCHROME Antiquing Release is at least 1 year from the date of purchase. Inventory should be rotated.

9. Cautions: Use with adequate ventilation. Do not breathe dust. Wear dust (particulate) respirator (NIOSH TC-84A approved), safety goggles, and gloves.

FIRST AID: Eyes—DO NOT RUB EYES. Immediately flush thoroughly with large amounts of water. Skin—Wash thoroughly with soap and water. Remove soiled clothing and wash before reuse. Inhalation—Move to fresh air. If symptoms persist or develop, or if ingested, get medical attention.

Wash thoroughly immediately after handling. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN. Replace inner bag and close container after each use. Store in a cool, dry, well-ventilated area. Avoid generating dust during recovery or disposal. Disposal of all residual or recovered product must be in accordance with applicable federal, state, and local regulations. Before using or handling, read the *Material Safety Data Sheet and Warranty*. FOR PROFESSIONAL USE ONLY.

10. Jobsite Samples: Representative jobsite samples must be produced and approved prior to installation. Samples must be made for each color specified

and be of adequate size to be representative, a minimum of 100 square feet (10 m²). The samples should be produced by the same workers who will install the antiqued, imprinted flatwork using the contemplated job materials, construction tools, and techniques. All samples should be finished, cured, antiqued, imprinted, and sealed as specified.

Producing antiqued, imprinted concrete requires skill and practice. Timing, finishing, application and removal techniques, mix design, texture of the imprinted pattern, color combinations, weather, experience in use of the materials, sealing and other factors will significantly affect the amount of antiquing ultimately obtained and the final appearance of the imprinted, antiqued surface.

Only uniformly slip-resistant imprinted textures should be chosen and approved. For safety considerations, the jobsite sample should be inspected after completion to verify and approve the adequacy of wet and dry slip resistance.

11. Colored Concrete Installation: Prior to placing the colored concrete substrate, representative jobsite samples should be produced and approved as described in *10. Jobsite Samples*.

Information about installing colored concrete is available in Scotfield's Tech-Data Bulletins *A-104 LITHOCHROME Color Hardener* and *A-204 EMERCHROME Floor Hardener*.

12. Antiquing Release Application: Surrounding areas, landscaping, and adjacent surfaces should be protected. The work area should be roped off, nearby vehicles removed, and appropriate sections closed to traffic. Application on a still day is recommended, since the powdered antiquing release is very finely ground, and wind conditions will severely affect its application.

The required pails of LITHOCHROME Antiquing Release should be distributed around the perimeter of the area to be antiqued. Immediately prior to imprinting, the antiquing release should be applied using a soft, long-bristle masonry brush to broadcast the material evenly across the surface, normally in one broadcasting operation (shake). Hand-broadcasting will cause clumps of antiquing release material to form on the concrete surface and is not recommended. To prevent drifting, the antiquing release should not be broadcast from a point above knee level.

To prevent adhesion during imprinting, a complete and adequate layer of antiquing release should exist between

the concrete and the mat-type texturing tool, embossing skin, or roller. Sufficient material should be applied so that the sheen disappears from the surface of the concrete, but since texture detail may be diminished, the application of an excessive amount should be avoided.

Timing is critical to successful application. If the antiquing release is applied while the slab is too plastic, more material than desired may become embedded in the concrete and be difficult or impossible to remove, causing the final color to be closer to that of the antiquing release. If the antiquing release is applied when the concrete is not plastic enough, little material will be able to combine with the concrete and most of it will be removed from the surface without producing the desired color effect. The finish applied to the surface of the concrete prior to stamping will also affect the amount of material that embeds in the concrete. Rough finishes will retain more antiquing release than flat finishes.

To reduce tracking and staining of other areas, excess antiquing release may be removed by brooming or vacuuming after imprinting and when the concrete is hard enough to walk on without marring. The concrete should be cured with nonstaining, new and unwrinkled, kraft curing paper conforming to ASTM C 171 *Sheet Materials for Curing Concrete*.

13. Antiquing Release Removal: To reduce tracking and staining of other areas, excess antiquing release may be removed by brooming or vacuuming the imprinted-concrete surface after it is hard enough to walk on without marring. After the imprinted concrete has been installed for 3–7 days depending on curing rate, the remaining unembedded antiquing release should be removed by a high pressure, detergent wash, followed by a thorough rinsing. An adequate area should be tested prior to washing and rinsing the entire surface to ensure that the concrete is strong enough to resist damage and scaling.

Sufficient antiquing release should be removed to obtain the desired effect. If the imprinted concrete is to be later chemically stained with LITHOCHROME® Chemstain™ Classic, thorough removal of the antiquing release is necessary to allow the Chemstain solution to successfully react with the surface. Care should be taken so that adjacent surfaces are not stained, and runoff should be controlled in accordance with local, state, and federal regulations.

All surfaces should be thoroughly inspected to verify and approve installation and safety prior to opening the area to traffic.

14. Sealing: To seal and protect the antiqued surface, CEMENTONE Clear Sealer or SCOFIELD Cureseal must be applied. Care should be taken in preparing the surface before application of the clear sealer as the antiquing release may affect the adhesion between the sealer and the color-hardened surface, particularly if the unembedded material is not adequately removed.

As soon as possible after the antiquing release has been removed and after the moisture content of the concrete is low enough so that alkali and other salts do not become trapped beneath the sealer, normally 14–28 days after placement, the surface should be sealed with CEMENTONE Clear Sealer or SCOFIELD Cureseal. The appropriate Scofield Tech-Data Bulletin *A-764 CEMENTONE Clear Sealer, B-204 SCOFIELD Cureseal-W, or B-604*

SCOFIELD Cureseal-S must be read completely before using.

All surfaces should be thoroughly inspected to verify and approve installation and safety, including wet and dry slip resistance, prior to opening the sealed surface to traffic.

15. Joint Sealing: All joints should be sealed with LITHOSEAL Trafficalk-3G. It is available in all standard, designer, or custom colors of LITHOCHROME Color Hardener. Selecting LITHOSEAL Trafficalk-3G in the matching color minimizes eye-stopping transitions at the joint lines, or a contrasting color may be preferred to define or emphasize select design elements. Additional information about sealing joints in colored flatwork is available in Scofield's Tech-Data Bulletin *S-404-3G LITHOSEAL Trafficalk-3G*.

16. Maintenance: On antiqued, imprinted concrete hardscapes and floors sealed with CEMENTONE Clear Sealer or SCOFIELD Cureseal, a maintenance application should be made periodically

as the sealer is worn off the surface. The appropriate Scofield Tech-Data Bulletin *A-764 CEMENTONE Clear Sealer, B-204 SCOFIELD Cureseal-W, or B-604 SCOFIELD Cureseal-S* must be read completely before using.

17. Availability: LITHOCHROME Antiquing Release is marketed nationwide and internationally, directly to the user through strategically located warehouses, dealers, and representatives. Scofield should be contacted for its nearest representative.

18. Warranty Summary: For the complete warranty statement and important limitations, read the *Material Safety Data Sheet and Warranty*. Generally, Scofield represents and warrants only that its products are of consistent quality. No other oral or written statement is authorized. Any liability is limited to refund or replacement of defective product. The end user shall determine product's suitability and assume all risks and liability.

Suggested Short Form Specification for Antiqued, Imprinted Concrete: All concrete designated in the plans or specifications as having an antiqued-imprinted surface shall be color-hardened with LITHOCHROME® Color Hardener in accordance with Tech-Data Bulletin A-104, using _____ color and a minimum of _____ pounds per 100 square feet. The color-hardened concrete shall be antiqued with LITHOCHROME® Antiquing Release in accordance with Tech-Data Bulletin A-854 using _____ color, or coated and imprinted using a mat-type tool such as LITHOTEX® Pavecrafters® in _____ pattern. All antiqued, imprinted concrete shall be sealed with two coats of CEMENTONE® Clear Sealer or one coat of SCOFIELD® Cureseal™ in accordance with Tech-Data Bulletin A-764, B-204, or B-604 and the joints sealed with LITHOSEAL™ Trafficalk-3G™ in the approved blending color in accordance with Tech-Data Bulletin S-404-3G. All products shall be manufactured by L. M. Scofield Company, (800) 800-9900, Los Angeles, CA, (323) 720-3000 and Atlanta, GA, (770) 920-6000.