



Powder Release Agent

Colored Stamp Mat Release

PRODUCT DESCRIPTION

Concretech Release Agent is a dry shake material formulated to facilitate the use and release of stamp tools for imprinting during the plastic stage set of concrete. Concretech Release Agents are blended; UV stable, high quality synthetic pigments, micronized aggregates, hydrophobic materials and admixtures providing easy release of imprint tools and rich accent colors. Concretech Release Agents increase imprint tool life and reduce imprinting labor.

TECHNICAL DATA

Appearance: 28 standard colors
Yield: approximately 800 sq ft per pail
Shelf Life: Shelf life under normal conditions is one year. Release Agent that has been exposed to moisture for extended periods should be discarded. Store in sealed containers, with the lid tight and in an upright position.

USES

For use on all interior and exterior stamped concrete, imprinted horizontal and vertical surfaces.

BENEFITS

Allows the contractor or designer to apply additional color to concrete at the imprint stage to simulate the look of natural rock. Releases mats from fresh concrete.

PREPARATIONS

Refer to Concretech Architectural Specifications for installation procedures.

LIMITATIONS

Protect all surfaces that are not intended to receive Release Agent. Take caution when using during windy conditions or where rapid air movement exists. Use a commercial grade detergent to facilitate the removal in unwanted areas. Never leave excess residue of Release Agent on a substrate that is to be covered with concrete or other surface finishes.

PACKAGING

Concretech Release Agents are available in 30lb (13.63Kg) pails and a wide assortment of colors.

INSTALLATION INSTRUCTIONS

Upon completing final troweling of integral colored or color hardened concrete, apply a light even coat of Concretech Release Agent over the area to be imprinted.

Allow bleed water to dissipate before broadcasting Release Agent on surface. Release Agent shall be applied in one or more broadcasts. Use "hand" or dry calcimine brush broadcast method, applying evenly and consistently. It is generally recommended that the Release Agent is a complimentary contrasting color, usually darker than the concrete. Recommended application rate is 30lbs per 800 sq ft. Never trowel Release Agent into surface, as this will cause discoloration and reduce concrete strength. Do not add water to surface while imprinting over Release Agent. In some instances Release Agent may be used in conjunction with liquid release. Contractors should test this method and perfect their techniques before attempting installation.

Cleaning

Once concrete has set, remove excess release powder with soft bristle broom or vacuum or in some instances hose off with clean water. Take care not to damage the surface before concrete has reached final set. After the concrete has reached initial cure, wash the surface, scrubbing with broom and commercial degreaser. Surface is sufficiently clean when water on the surface no longer beads. In general it is desirable to leave release color representing 10% to 30% of the final color.

Finishing

All colored and imprinted concrete surfaces shall have a sealer or water repellent coating applied to protect the finish from moisture and oxidization. Apply Concretech Cure and Seal (CS 15) as soon as possible. Follow up with Concretech High Solids Sealer (CS 25 or CS 30) after 28 days. Follow Concretech technical bulletins for applied product.

SAFETY PRECAUTIONS

Caution - Wear protective clothing, rubber gloves, eye protection and respirator. Keep away from children.

First Aid - Flush contaminated areas immediately and seek medical attention. Wash hands with soap and water. Remove contaminated clothing. Flush eyes with clean water or eye wash solution. In all cases seek immediate medical attention.

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Warranty

Concrete Chemical Technologies Inc.'s sole warranty is that our products have been manufactured to meet with our written specifications. The information herein is general information to assist our customers in determining whether our products are suitable for their applications. Our products are intended for sale to commercial and industrial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents, suitability and applications. Nothing herein shall constitute any other warranty, express or implied, including any warranty of merchantability or fitness for a particular purpose, nor is any protection from any law or patent inferred. All patent and trademark rights are reserved. The exclusive remedy for all proven claims is placement of our materials and in no event shall we be liable for incidental or consequential damages.

Perma-Cast® Antiquing Release

Technical Data Sheet P-0805

FOR PROFESSIONAL USE ONLY. Read all applicable and current product information for your project: Technical Data Sheet (TDS), Color Chart, Installation Guide, Material Safety Data Sheet (MSDS).

MasterFormat™ Guide Specifications, and Butterfield Color Architectural Details and Specifications are available for the specifier/designer. All information is available for download online at www.butterfieldcolor.com

1. Description: Perma-Cast® Antiquing Release is a color powdered bond breaker used with stamping mats, texturing skins and texture rollers. It also provides accent colors that compliment or contrast with the underlying concrete surface. Additionally, it enhances the transfer of the detailed pattern and texture, and prolongs the surface life of the stamping mat or texturing tool. It is compatible with integrally colored concrete, color hardened concrete and stampable cementitious overlays.

Perma-Cast® Antiquing Release is a finely ground, streak free powder that is a blend of UV-resistant pigments and water repelling additives. It is broadcast over the concrete surface prior to placing the stamping or texturing tools. As the imprinting tool is pressed into the plastic concrete surface, a portion of the Perma-Cast® Antiquing Release is embedded into the textured surface of the concrete. As the tool is removed, it breaks cleanly, without marring the colored concrete surface. Upon washing and sealing, the difference in color between the base concrete and the release creates a visually attractive, antiqued look to the concrete. The added color visually enhances the depth of the texture. The amount of release agent retained on the concrete will vary. Perma-Cast® Antiquing Release can be used in matching or contrasting colors to create a variety of effects. A combination of colors can add interesting shading and highlights to the finished concrete surface.

Perma-Cast® Antiquing Release is available in 15 standard colors, as well as colors selected from the Perma-Cast® Color Hardener Color Chart. The resultant release colors may not be an exact match to concrete colored with those of integral or shake-on colors. Custom colors and color matching are available with ample lead-time, without up charges or minimums.

2. Limitations: Perma-Cast® Antiquing Release should not be used as the primary coloring agent. It should not be troweled into concrete. Do not use as a curing compound. Perma-Cast® Antiquing Release will produce variegated colors and is a function of concrete mix design, timing, method of application and removal, method of imprinting, and weather.

Avoid over application, which may minimize the depth of texture. Cover and protect adjacent surfaces from

contamination during application and residue removal. Consider using Perma-Cast® Clear Liquid Release if contamination is a concern, particularly on interior applications or when imprinting cementitious overlays.

Perma-Cast® Antiquing Release is retained on the surface by a mechanical bond. It will require an application of a sealer to enhance the longevity of the antiqued coloration.

3. Caution: Use with adequate ventilation. Applicators and all other onsite personnel must wear an OSHA-NIOSH approved dust respirator while applying or working around this product. Avoid contact with skin and eyes. Wear rubber gloves to protect skin and safety eye goggles. Close containers after each use. Use good hygiene when handling this product. Wash and bathe after each use. Keep out of reach of small children and animals. Do not take internally. Dispose of all residual material in accordance with local, state, and federal regulations. Read the Material Safety Data Sheet (MSDS) before handling and using product.

4. Packaging: Perma-Cast® Antiquing Release is packaged in 30-pound (13.6 kg) plastic pails. Shelf life is 2 to 3 years when stored in original containers in a cool and dry environment.

5. Coverage: Coverage varies depending on timing, application technique, method of finishing, surface texture prior to imprinting, coloration effect desired, and other conditions. For most applications, the coverage rate is approximately 3-4 pounds/100 square feet (1.5-2.0 kg/10 m²), which equates to 750-1000 square feet per 30-pound pail (70-93m²/13.6kg). Experienced release applicators can achieve coverage up to 1200 square feet per 30-pound pail (112 m²/13.6 kg). Note: Creating the antiqued color effects requires skill and practice. Prior to the installation of any jobsite concrete, make and approve a representative sample for each color effect desired to determine the timing, application rate, finishing, removal, and sealing techniques.

6. Application: Cover and protect adjacent surfaces near the work area prior to applying Perma-Cast® Antiquing Release. This is especially critical on windy days. The concrete surface should be

lightly troweled before the application. Rougher finishes may require more material to achieve the proper coverage and may retain an excessive amount of release powder after the removal process, thereby affecting the color of the surface.

Immediately prior to the placement of stamping mats, texturing skins or texture rollers, broadcast Perma-Cast® Antiquing Release uniformly over the surface with a soft bristled, 6 inch mason's brush. Apply enough release so that the moist sheen on the concrete surface is covered. Do not apply over standing bleed water. Perma-Cast® Antiquing Release should not be broadcast for more than a few feet or from above the knee to minimize drifting outside of the work area. Multiple colors of Perma-Cast® Antiquing Release may be used for more unique colorations. Once applied, do not work the surface with a float or a trowel. The surface of the imprinting tools should also be lightly brushed with the release powder.

Timing is critical; applied too early, the antiquing release may be difficult to remove; applied too late, and most of the antiquing release will be removed during the removal and cleaning process.

An antiquing method may also be applied to concrete surfaces and cementitious overlays after the imprinting process has been completed. This method is useful when more accent color is desired on a new installation or as a means of rejuvenating an older, weathered surface. Detailed information about this process can be found in the Perma-Cast® Clear Liquid Release Technical Data Sheet, specifically the application information found in section numbers 6.1. Antiquing after stamping, 6.2. Integrally colored concrete or shake-on color hardener and 6.3. Cementitious overlays. Read the complete Technical Data Sheet before using the liquid release.

7. Removal: After imprinting has been completed, the residual Perma-Cast® Antiquing Release must be removed to prevent tracking and loss of adhesion when a sealer is applied. Do not clean the surface until the concrete has cured for 24-48 hours. Cold temperatures may delay the cleaning process, since the concrete will require a longer cure time. Cleaning too soon may cause complete loss of the antiqued color, as well as damage to the

colored concrete substrate. A small area should be test cleaned to evaluate the cleaning process and the resultant colorations.

Sweep or vacuum excess release, and follow by scrubbing with a soft bristled brush and water. Water can be applied with a garden hose or a high pressure wash. With either method, take care not to damage the surface of the curing concrete or remove too much antiqued colorations. Protect adjacent surfaces from runoff. Dispose of all residual materials in accordance with local, state, and federal regulations. The antiquing release is mechanically bonded to the concrete, so the surface must be sealed and maintained to preserve its antiqued appearance over time.

8. Sealing: After Perma-Cast® Antiquing Release has been removed from the surface, Clear Guard™ Cure and Seal should be applied after the concrete has thoroughly dried for a minimum of 72 hours at 70° F (21° C). Approve final color before the sealer is applied. Sealed surfaces may become slippery when wet.

Sealed surfaces will require maintenance. Read the Clear Guard™ Cure and Seal Technical Data Sheet before installing product.

9. Quality Control: Cast a job site sample at least 21 days prior to the installation for approval of color and finish. Utilize all materials, tools, and techniques from the actual job in the mock-up. Consistent batching, pouring, finishing, curing, sealing, and preparation techniques, will ensure the uniformity of architectural concrete. Verify adequate wet and dry slip resistance. Verify maintenance requirements. Site visits by Butterfield Color, Inc. personnel are for making technical recommendations only and not for supervising or providing quality control.

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Suggested Short Form Specification for Butterfield Color Uni-Mix® Integral Colorant:

Add Butterfield Color Uni-Mix® Integral Colorant to concrete in proportion required to obtain [_____] color and mix according to manufacturer's instructions. Maintain mix characteristics for all concrete having matching finish. Concrete shall contain a minimum of five sacks of cement per cubic yard and have a maximum slump of 4 inches. Do not use calcium chloride. Place and finish concrete according to industry standards. [Optional: Apply Butterfield Color Perma-Cast® Antiquing Release according to manufacturer's instructions using [_____] color and imprint using Butterfield Color® Stamping Tools using [_____] pattern according to manufacturer's instructions.] Cure and seal concrete with 2 coats Butterfield Color Clear Guard™ Cure and Seal with slip-resistive additive according to manufacturer's instructions.

Suggested Short Form Specification for Butterfield Color Perma-Cast® Shake-on Color Hardener:

Apply Butterfield Color Perma-Cast® Shake-on Color Hardener to fresh concrete according to manufacturer's instructions using [_____] color and a minimum of [_____] pounds per 100 square feet. Apply Butterfield Color Perma-Cast® Antiquing Release according to manufacturer's instructions using [_____] color and imprint using Butterfield Color® Stamping Tools using [_____] pattern. Seal concrete with 2 coats Butterfield Color Clear Guard™ Cure and Seal with slip-resistive additive according to manufacturer's instructions.

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1. Description: Butterfield Color® Clear Liquid Release is a bond breaker used with stamping mats, texturing skins or texture rollers prior to imprinting concrete or cementitious overlays. It prevents the stamping or texturing tool from sticking to the surface, enhances the transfer of the detailed pattern and texture, and prolongs the surface life of the stamping mat or texturing tool. Use on integrally colored or uncolored concrete, shake-on color hardeners, and stampable cementitious overlays. It is suitable for outdoor and indoor use. It is particularly useful with overlays, since it will not contaminate the existing concrete substrate as readily as powdered releases. It evaporates quickly and requires little to no clean up prior to applying solvent based curing and sealing compounds such as Clear Guard® Cure and Seal, or prior to chemical staining with Perma-Cast® Sierra Stain. Butterfield Color® Clear Liquid Release may be tinted with Perma-Cast® Antiquing Release to create mottled color variations on a textured surface. VOC content is less than 450 g/L (3.75 lb/gallon).

2. Packaging: Butterfield Color® Clear Liquid Release is available in 5-gallon (19 L) pails. Pails should be stored in a cool, dry place when not in use. Store away from combustible materials and sources of heat. Do not reuse empty container.

3. Coverage: A 5-gallon pail covers approximately 750 square feet (1L/ 4 m²) of concrete surface. Apply full strength. Do not dilute. Coverage will vary depending on timing, surface finish prior to stamping, application method, air temperature, humidity and wind conditions. Conditioning of the stamping tools with the liquid release prior to stamping will also affect the amount of material used.

4. Cautions: Combustible liquid and vapor. May cause eye, skin, and respiratory irritation. Do not take internally. Keep out of reach of children and animals. Wear an organic respirator, eye protection, and protective clothing during application. Ensure adequate ventilation during and after application. In case of spillage, absorb and dispose of material in accordance with local, state, and federal regulations. Before use, read Material Safety Data Sheet.

5. Application Equipment: A clean, quality hand-pump sprayer equipped with a fan pattern spray nozzle should be used to apply Butterfield Color® Clear Liquid Release. Material should be applied to the surface of the concrete and to the pattern and texturing tools. Spraying equipment must be resistant to solvent-based materials.

6. Application: Apply Butterfield Color® Clear Liquid Release after all finishing is completed and prior to imprinting the surface. Do not attempt to float, trowel, or otherwise work the surface once the liquid release is applied. Do not apply over a large area, as the liquid release may evaporate prior to the imprinting process. Do not apply if bleed water is visible on the concrete surface. Material should also be applied to the imprinting tools.

Apply liberally. Butterfield Color® Clear Liquid Release evaporates and it must be reapplied to the concrete surface and tools during the imprinting process. Do not attempt to imprint the surface without liquid release visible on the concrete or imprinting tool surface. After complete evaporation, the concrete surface will lose its wet sheen and appear dull. At this time, the surface may be cured or sealed with Clear Guard® Cure & Seal, or chemically stained with Perma-Cast® Sierra Stain in accordance with the Technical Data Sheets for those products.

6.1. ANTIQUING AFTER STAMPING OR TEXTURING: If a mottled or antiqued color is desired on the imprinted surface, mix ¼ cup of Perma-Cast® Antiquing Release powder with one gallon of Butterfield Color® Clear Liquid Release in a pump sprayer. Mix the combined materials thoroughly. Keep the mixture well agitated during the application to prevent settling. Do not walk on the antiqued surface while wet. This method is best utilized after the surface has already been patterned or textured using Butterfield Color® Clear Liquid Release.

6.2. ON INTEGRALLY COLORED CONCRETE OR SHAKE-ON COLOR HARDENER: After the imprinting process is complete using Butterfield Color® Clear Liquid Release, and the surface is firm enough to walk on without leaving foot prints, the mixture of liquid and powder releases can be applied to the concrete. Using a hand-pump sprayer, apply liberally to the surface. The tinted release will randomly flow and concentrate in the imprinted areas of the concrete, creating a mottled or antiqued look, similar to the natural variations found in stone, brick, or cobbles. While spraying, if it is determined that too much tinted release has been applied in a given spot or area, it can be lightened by dabbing or rubbing with a clean cloth.

Once the tinted release has evaporated completely (no wet sheen is visible), cure and seal the concrete. The initial application of the curing and sealing compound must be done with a sprayer. Application by roller will remove the antiquing color. Once the initial light coat of

curing and sealing compound has dried, locking in the antiquing color, spray or roll additional coats of sealer as needed.

6.3. ON CEMENTITIOUS OVERLAYS: After completing the imprinting process using Butterfield Color® Clear Liquid Release neat, and once it has evaporated completely (no wet sheen is visible), the surface should be sealed. Once the sealer is completely dry, the mixture of liquid and powder releases can be applied. The sealer will prevent the surface from excessively absorbing the tinted release. Dabbing or rubbing with a clean cloth can be done to remove excess antiquing. Once the tinted release has evaporated completely (no wet sheen is visible), seal the concrete. The initial application of the sealer must be done with a sprayer. Application by roller will remove the antiquing color. Once the initial light coat of the sealer has dried, locking in the antiquing color, spray or roll additional coats of sealer as needed.

7. Quality Control: Cast a job site sample at least 21 days prior to the installation for approval of color and finish. Utilize all materials, tools, and techniques from the actual job in the mock-up. Consistent batching, pouring, finishing, curing, sealing, and preparation techniques, will ensure the uniformity of architectural concrete. Verify adequate wet and dry slip resistance. Verify maintenance requirements. Site visits by Butterfield Color, Inc. personnel are for making technical recommendations only and not for supervising or providing quality control.

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