PERMA-CAST® ANTIQUING RELEASE AND SELECT GRADE® ANTIQUING RELEASE

This color chart is used for selecting colors for Perma-Cast® Antiquing Release and Select Grade® Antiquing Release products. When selecting colors, indicate the Perma-Cast® Antiquing Release color (shown below as R#) or Select Grade® Antiquing Release color (shown below as SGR#).

Perma-Cast® Antiquing Release or Select Grade® Antiquing Release are dusted over the surface of freshly colored concrete flatwork before stamping or texturing. The release powder prevents the tool from sticking to the concrete surface during installation and provides a secondary accent of colors.

Tamping the stamping tool embeds the colored release powder in the textured surfaces of the concrete. Upon washing and sealing, the contrast in color between the underlying concrete and the release powder, creates a visually attractive antiqued look on the concrete. The added release color also enhances the depth of texture for a more natural and realistic finish.

The amount of release agent retained on the concrete will vary with job site conditions. The resulting coloration will range between the concrete color and that of the antiquing release powder. The surface must be sealed and maintained to preserve its antiqued appearance over time.

PERMA-TIQUE® ANTIQUING AGENT

This chart can also be used when selecting colors for the Perma-Tique® Antiquing Agent antiquing system. When selecting colors, indicate the Perma-Tique® Antiquing Agent color (shown below as PT#). Perma-Tique® Antiquing Agent is used to add an accent color to unsealed hardened textured concrete and unsealed overaid textured surfaces.

Please refer to the Perma-Tique® Antiquing Agent Technical Data Sheet for additional information. All information is available for download online at www.butterfieldcolor.com and at point of purchase.

Please indicate when ordering:
- Perma-Cast® Antiquing Release: R#
- Select Grade® Antiquing Release: SGR#
- Perma-Tique® Antiquing Agent: PT#

www.butterfieldcolor.com
800-282-3388
Perma-Cast® Antiquing Release, Select Grade® Antiquing Release, & Perma-Tique® Antiquing Agent
Coloring System Guide

The Butterfield Color® Advantage

Color and durability are the very essence of Butterfield Color®. With over 40 years of field experience in architectural colored concrete, we offer a line of color concrete additives that are technically superior and meet the needs of the architectural specifier as well as the concrete finisher.

FOR PROFESSIONAL USE ONLY. Read all applicable and current product information for your project: Technical Data Sheet (TDS), Color Chart, Installation Guide, Safety Data Sheet (SDS). All information is available for download online at www.butterfieldcolor.com and at point of purchase.

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 and at point of purchase.

Description: Perma-Cast® Antiquing Release and Select Grade® Antiquing Release are colored powder bond breakers used with stamping mats, texturing skins and texture rollers. The products provide accent colors that complement or contrast with the underlying concrete surface. Additionally, they enhance the transfer of the detailed pattern and texture, and prolong the service life of the stamping mat or texturing tool. They are compatible with integrally colored concrete, color hardener concrete and stamplus cementitious overlays.

Perma-Cast® Antiquing Release and Select Grade® Antiquing Release are finely ground, streak free powders that are a blend of UV-resistant pigments and water repellent additives. BroadCast Perma-Cast® Antiquing Release or Select Grade® Antiquing Release 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 antiquing release is embedded into the textured surface of the concrete. When 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 on the concrete. The added color visually enhances the depth of the texture. The amount of release agent retained on the concrete will vary. Use a Perma-Cast® Antiquing Release or Select Grade® Antiquing Release color that matches or contrasts with the concrete color. Add a combination of colors to create interesting shading and highlights on the finished concrete surface.

Perma-Cast® Antiquing Release is available in 14 standard colors (RG#), as well as colors selected from the Perma-Cast® Shake-on Color Hardener color chart. The release colors formulated from Perma-Cast® Shake-on Color Hardener colors will not be an exact match to concrete colored with these shake-on colors. Custom colors and color matching are available with ample lead-time, without up charges or minimums.

Select Grade® Antiquing Release is only available in 14 standard colors (SGR#). Custom colors and color matching are not available.

Limitations: Do not use Perma-Cast® Antiquing Release and Select Grade® Antiquing Release on the same installation. Unacceptable color and texture variations may occur. Do not use Perma-Cast® Antiquing Release or Select Grade® Antiquing Release as the primary coloring agent. Do not trowel or float the concrete surface after the release powder is applied. Do not use as a curing compound. Perma-Cast® Antiquing Release and Select Grade® Antiquing Release will producevarsiegated 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 Butterfield Color® Clear Liquid Release if contamination is a concern, particularly on interior applications or when imprinting cementitious overlays.

Perma-Cast® Antiquing Release and Select Grade® Antiquing Release are retained on the surface by a mechanical bond. A sealer application is required to enhance the longevity of the antiqued coloration.

Packaging: Perma-Cast® Antiquing Release and Select Grade® Antiquing Release are packaged in plastic pails. Shelf life is indefinite when stored in original, unopened containers, in dry storage.

Coverage: Perma-Cast® Antiquing Release – approximately 1,000-1,200 sq. ft. (93-111 m²) per 30 lb. (13.6 kg) pail.
Select Grade® Antiquing Release – approximately 750-800 sq. ft. (70-93 m²) per 30 lb. (13.6 kg) pail.

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.

Perma-Tique® Antiquing Agent: Perma-Tique® Antiquing Agent is used to antique unsealed hardened textured concrete and unsealed overlaid textured surfaces. Perma-Tique® Antiquing Agent mixes with water and is applied to the concrete surface to add a natural antiquing color to newly textured concrete, overlays or old weathered textured surfaces.

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### Select Grade® Integral Color

**Coloring System Guide**

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<th>1 BAG PER 2 YARDS</th>
<th>1 BAG PER 1 YARD</th>
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</thead>
<tbody>
<tr>
<td>SG01 BROWN</td>
<td>EARTH BROWN</td>
<td>TOASTED BROWN</td>
<td>CHINCHILLA BROWN</td>
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<tr>
<td>SG02 CORAL</td>
<td>RED CORAL</td>
<td>CRIMSON CORAL</td>
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<td>HICKORY BARK</td>
<td>MAHOGANY BARK</td>
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<tr>
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<tr>
<td>SG12 DRIFT</td>
<td>DRIFTWOOD SELECT</td>
<td>AFRICAN DRIFTWOOD</td>
<td>CHARRED DRIFTWOOD</td>
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Colors shown on this chart represent formulations using median gray cement and heaped dry aggregate in concrete. Specifications and methods of application and placement may vary. Use caution in all applications. Always check color with a lab sample.
FOR PROFESSIONAL USE ONLY. Read all applicable and current product information for your project: Technical Data Sheet (TDS), Color Chart, Installation Guide, Safety Data Sheet (SDS). All information is available for download online at www.butterfieldcolor.com and at point of purchase.

MasterFormat™ 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 and at point of purchase.

Description: Select Grade® Integral Concrete Colorant is an economical pre-measured pigment for integrally coloring ready mixed concrete and all manufactured concrete products during batching. Conforming to ASTM Standard C979 (Standard Specification for Pigments for Integrally Colored Concrete), it is a blend of non-fading, synthetic iron oxides. Select Grade® Integral Concrete Colorant is suitable for integrally colored concrete projects of all types. Superior quality control during manufacturing and packaging help to ensure your jobs will have uniform color from load-to-load.

Packaging: 11 standard base colors are available in pre-measured dissolving bags. The Select Grade® Integral Concrete Colorant chart represents dosages ranging from 1 bag of a single base color for two cubic yards of concrete to 3 bags of a single base color for one cubic yard of concrete. By varying the bag dosage, each base color can produce 4 different colors. Do not open bags. Simply toss the dissolving bag(s) into the mixer. This eliminates the mess and inaccuracy associated with the handling of loose colorants. The use of multiple dose base color bags also simplifies inventory management. The color chart approximates the color of cured and sealed concrete designed with a medium gray Portland cement. Local materials, finishing techniques, texture, and method of curing and sealing will affect the final color. NOTE: When using lower color loadings, such as one bag per two yards, the color of the cement and sand have a more pronounced influence on the final color resulting in a greater chance of color variation.

Concrete Mix Design: Select Grade® Integral Concrete Colorant is always consistent. There are other variables that can affect the appearance of concrete. Therefore, it is important that you discuss your project with your Ready Mix supplier. The same cement, aggregate, sand and water cement ratio must be maintained throughout the project. The recommended slump is 4 inches. **DO NOT USE CALCIUM CHLORIDE.** Only use non-chloride accelerators. Concrete subject to freeze/thaw cycling should always be air entrained between 5%-8%. Consult with your Ready Mix supplier and Butterfield Color® at 800-282-3388.

Subgrade: Must be free of frost, with no standing water.

Adding Color to Mix: Mixer drum should be in good condition with little or no buildup on fins. One quarter (1/4) of the volume of mixer is the minimum amount of concrete that should be used to develop a homogenous mix. Spin drum in reverse until the load backs to the top. Place the unopened bag of Select Grade® Integral Concrete Colorant directly onto the concrete and mix approximately 100 revolutions at optimal mixing speed as recommended by the mixer manufacturer.

Placing and Finishing: Once placing has begun, do not add water to the mix, as it will affect color. After placing and floating, no further finishing should be performed until bleed water has evaporated, after which final finishing can take place. Water should never be added to the surface of concrete as it will weaken and discolor it. When broom finishing concrete, do not wet the broom as it will cause efflorescence and streak the surface. Finishing techniques should be consistent.

Curing: Use curing paper, Clear Guard® Cure and Seal, Clear Guard® PRO 350® Cure and Seal, or Clear Guard® H₂O Water-Based Cure and Seal to cure colored concrete. Read Technical Data Sheets before using these products. All information is available for download online at www.butterfieldcolor.com and at point of purchase. Never use plastic sheeting or water spray to cure colored concrete, as it will mottle and streak the surface.

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.

WARNING: USE WITH ADEQUATE VENTILATION WHEN DUSTY CONDITIONS OCCUR. USE PROTECTIVE GLASSES, GLOVES AND DUST MASK (NIOSH/MSHA TC-21C APPROVED). IMMEDIATELY AFTER USE WASH ANY AREA OF EXPOSED SKIN. IF CONTACT IS MADE WITH EYES Flush THOROUGHLY WITH WATER. DO NOT RUB. MOVE TO FRESH AIR IF INHALED. IF SYMPTOMS DEVELOP OR PERSIST, OR IF INGESTED, SEEK MEDICAL ATTENTION. KEEP OUT OF REACH OF CHILDREN.

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