



Production Description

COLORBRITE® is a ready-to-use, shake-on type, concrete surface hardener and dust proofer manufactured in natural concrete gray plus a variety of colors. It is a product designed to be applied to freshly poured concrete where the high strength cement, color, and aluminum oxide aggregate become permanently fused to the concrete substrate. This high concentration of aggregate and cement at the surface gives the floor a durable, diamond like hardness that will stand up under the most severe traffic conditions. COLORBRITE® is not a topping that is installed over a hardened concrete substrate. It is a special surface treatment installed at the time the concrete is poured. This eliminates bonding problems normally associated with toppings.

Lambert's specialty emery aggregate is used in the creation of COLORBRITE®. It is the same aggregate used to make industrial grinding wheels. Lambert's specialty emery aggregate is a natural abrasive which, instead of becoming smooth and slippery with wear, actually becomes more non-slip as it protrudes from the surface. The irregular particle sizes provide a gripping action at the surface level. Because of this, the wear resistant qualities of COLORBRITE® greatly surpass other surface hardeners made of stone, gravel, sand, or various other materials used in the construction of heavy duty, non-corrosive, non-rusting, slip-resistant surfaces.

The combination of Lambert's specialty emery aggregate, and chemically pure oxide pigments for color, with high strength cement gives COLORBRITE® the ability to provide a low maintenance concrete floor that is extremely hard, durable, decorative, dustproof, and slip-resistant when finished with a broom or textured finish.

COLORBRITE® is designed to be used on interior or exterior concrete. It is recommended where a high quality, hardwearing concrete surface is desired, such as high traffic walk-ways, warehouse, auditorium and factory floors, ramps, aisles, turnarounds, and other areas. COLORBRITE® may be used in conjunction with a 2-inch (5.1 cm) or more topping of concrete.

Installation

Before using this product, please refer to the Material Safety Data Sheet for additional information. Proper handling precautions MUST be followed. The conditions of use, handling, and application of this product and information (whether verbal or written), including any suggested formulations and recommendations, are beyond Lambert Corporation's control. Therefore, it is imperative that testing be performed to determine satisfaction and suitability for intended use and health, safety, and environmental issues. The following information is meant as a guideline of best industry practices. While Lambert Corporation does suggest adherence to these guidelines, unforeseeable variables and/or developed successful installer practices may cause variation in methods and/or results. These instructions assume that ACI standards and recommended techniques have been followed in construction of floors or placing of proper bonded restoration toppings of 2-inch (5.1 cm) or more.

Concrete Substrate

Use a placeable and finishable concrete mixture of the required strength design with a slump not to exceed 4-inches (10.2cm), and with no more than 3% entrained air.

Cautions - Air-Entrained Concrete

Excessive air content in the concrete will frequently produce a very rubbery condition that is difficult to finish to a level, smooth surface. Unusually high amounts of air may separate from the mix and become entrapped in the form of bubbles below the surface being finished. These bubbles not only prevent trawelling the floor to a level surface but also can produce blisters. For heavy-duty traffic areas, concrete designed for at least 4500 psi (31.03MPa) should be used. At temperatures below 60°F (15.6°C) or above 85°F, (29.4°C) follow ACI Recommended Practices for Cold or Hot Weather Concreting.

Placing and Consolidating Concrete

Deposit concrete between previously placed screed points with the least possible handling. Vibrators may be used to consolidate concrete. Strike off concrete level with a true wooden strike off bar. Immediately behind the strike-off operation, the concrete is further leveled and consolidated with a wooden Darby. This operation must be completed before any free moisture (bleed water) rises to the surface. If there is free-bleed water on the surface, remove it prior to first floating. Float areas to an even surface that corresponds to the finished grade as soon as the concrete will handle weight of finisher.

Application

The COLORBRITE® material must obtain all its moisture from the base slab when it is being incorporated into the surface of the concrete. The addition of any water will destroy the integrity of the wearing surface and cause bond failure. Job specifications usually state the rate of poundage per square foot of surface area to which the shake-on material must be applied. When the substrate has reached the point where no excess moisture appears at the surface and the surface will properly hold the aggregates, COLORBRITE® is applied evenly to the surface by the broadcast or shake-on method. Apply by hand, allowing the shake-on material to sift through the gloved fingers while moving the hand to obtain a uniformly thick application over the surface. Use of a spreader will help speed application of the COLORBRITE® in large area applications. Do not throw or broadcast hardener by shovel. Apply as soon as possible to areas adjacent to walls, forms, columns, and doorways since these areas lose moisture more rapidly. Finishers using a power trowel with float blades should float the shake over all other areas as soon as the COLORBRITE® material has absorbed moisture from the concrete beneath it (this will be apparent by surface darkening) and as soon as the float blades do not mark the surface. Float just enough to bring the moisture through the shake-on material and to achieve a "paste". Time the floating so it will not be necessary to sprinkle water on the dry shake surface. Do not manipulate surface further or steel trowel at this time.

Packaging:

60 -lb (27.2-kg) Pail
(5-gal)

60-lb (27.2kg) bag
in Natural Only

SURFACE HARDENERS

COLORBRITE®

MASTER FORMAT: 03 35 00
03 53 13



The second application is then applied immediately so it can absorb the moisture through the first shake material before it evaporates. Apply the second **COLORBRITE®** shake at right angles to the first one for more even color and thickness. When second application has absorbed moisture (indicated by darkening of the surface) float the surface with a power trowel equipped with float blades or disc float. It is important to achieve a "paste" consistency (low water/cement ratio) which is then worked into and on the concrete substrate and becomes a high compressive strength surface. The surface can be further compacted by additional floating if time and setting characteristics of the concrete permit. When concrete is just barely hard and firm, steel trowel uniformly to a smooth finish. This is a "time sensitive" operation - never re-wet. If **COLORBRITE®** needs added water to make it work better, the result is a higher water/cement ratio of the "paste" which greatly reduces the compressive surface strength of the floor.

SURFACE HARDENERS

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Finishes

Surface may be "broomed", smooth, scored, or textured if desired. Smooth finishes that require excessive steel trowelling are not recommended unless the poundage is increased to a minimum of 1-pound per square foot (4.9kg/m²) of surface area. A heavy or light broom finish is recommended for most exterior surfaces.

Cautions

Do not burnish trowel **COLORBRITE®**.

Curing and Sealing

COLORBRITE® may cured and sealed with Lambert cure and seal products.

Non-Slip Surface

Where a non-slip surface is desired, the poundage per square foot needs to be a minimum of 1 pound (0.45 kg) and the finish a medium or heavy broom. Lambert's color coatings/finishing compounds are recommended.

Protection

After curing and sealing, the area should be segregated. Alert other trades to the need for special protection against the rolling or sliding of heavy loads across the surface until concrete has been cured 28-30 days.

Limitations

COLORBRITE® is not a topping material that is installed after the concrete has hardened. It is designed to become the surface part of freshly placed concrete. Do not use where floor surfaces will be exposed to acids, salts or other materials that seriously attack cement. Care must be taken not to overwork the surface (destroying the glue line bond) when installing **COLORBRITE®** with a 2-inch (5.1cm) or more topping of fresh concrete. Do not use where floor surfaces will be exposed to acids, salts or other materials that seriously attack cement. Care must be taken not to overwork the surface (destroying the glue line bond) when installing **COLORBRITE®** with a 2-inch (5.1 cm) or more topping of fresh concrete.

Technical Data

Aggregate Type	Aluminum Oxide
Aggregate Size	14-35 mesh
Cement	Portland
Pigments	Oxides

Coverage

- Heavy Duty Industrial Use - 80 to 100 pounds per 100 ft² (3.9-4.9kg/m²) of surface area
- Medium Duty Industrial Use - 55 to 80 pounds per 100 ft² (2.7-3.9kg/m²) of surface area.
- Light Colors - 80 to 100 pounds per 100 ft² (3.9-4.9kg/m²) of surface area is minimum poundage to achieve good uniform color over a gray concrete substrate.

Clean-Up

Product can be cleaned up by sweeping, paying attention to minimizing the creation of excess dust.

First Aid

Cement powder or freshly mixed concrete may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into eyes, rinse immediately and repeatedly with water and get prompt medical attention.

**KEEP OUT OF REACH OF CHILDREN.
FOR INDUSTRIAL USE ONLY.**