

COLORCOAT

Revision: September 2011
Supersedes all previous publications



Product Description

LAMBCO® COLORCOAT (formerly known as STAIN "SB") is a solvent based penetrating type color coating specifically developed to enhance the natural beauty and texture of many types of exterior and interior concrete surfaces. It is a unique blend of styrene and acrylic resins designed to sink into the pores of the concrete taking finely ground pigment with it. This action leaves the resin and color in the concrete pores below the wearing surface. Depending on the concrete finish and mix design of the concrete placement, this can vary the surface porosity greatly. A smooth trowelled surface will greatly reduce the penetration of LAMBCO® COLORCOAT into the concrete surface. In the application of the LAMBCO® COLORCOAT there is a two-step process - first step is the sinking-in application, the second step is the color uniformity and sealing application. An attractive decorative finish results after these two applications.

Basic Uses

LAMBCO® COLORCOAT gives a long lasting, hard, decorative finish to concrete. It is used to color and to seal concrete surfaces (sidewalks, driveways, patios, pool decks, and industrial and commercial floors) interior or exterior, foot or vehicle traffic. Used also to restore unsightly stained old concrete to a new surface look. LAMBCO® COLORCOAT eliminates concrete dusting and facilitates floor sweeping and cleaning.

When applied at 300 square feet per gallon (7.4m²/L) to fresh concrete LAMBCO® COLORCOAT meets the ASTM-C-309 and ASTM-C-1315 specification requirements for liquid membrane forming compounds for the proper curing 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.

Surface Preparation

Improper surface preparation can result in less than acceptable LAMBCO® COLORCOAT performance. It is very easy to blame adhesion problems that occur, on the coating that is used, when poor surface preparation is really where the fault lies. To ensure proper adhesion and maximum durability, the surface must be thoroughly cleaned of cure and sealing compounds, dirt, dust, oil, wax, and loose concrete. Depending on surface to be treated, the following steps should be taken.

All concrete must be acid etched or sand-brush blasted prior to applying stain. This will leave a porous surface for penetration. Correct acid etching procedure is as follows: mix one part by volume muriatic or phosphoric acid into 10 (ten) parts water. Apply acid with plastic sprinkling container. After application, immediately brush, thoroughly working the surface. Wait 10 (ten) minutes or until foaming stops, then thoroughly rinse with clean water. If smooth hard-trowelled polished concrete exists (such as warehouse or garage floors), a stronger acid solution may be required. Where strong acid solutions are used, it is imperative that the surface be rinsed thoroughly with water (high-pressure wash is best). A 10% ammonia and water wash, followed by rinsing, is also recommended for acid neutralization. Properly etched concrete produces a sandpaper finish that has the "teeth" to form a successful bond. If this is not achieved, repeat etching process. Allow concrete to dry 24 hours before applying LAMBCO® COLORCOAT.

If acid etching is impractical, mechanical processes including shot blasting, sand blasting, and high pressure water blasting should be considered. Shot blasting is a one-step method that strips, cleans, and etches all at once. It leaves the surface dry and chemically free without generating dust pollution and it totally eliminates any drying time required before LAMBCO® COLORCOAT can be applied. Portable shot blasting is recommended for interior locations.

LAMBCO® COLORCOAT may not bond well to aged, hardened, smooth finished concrete or highly saturated (oils, greases, chemicals) concrete because of difficulty in penetration. These surfaces must be etched by shot blast, acid, or sandblasting, and a test sample applied prior to application.

Application

Apply LAMBCO® COLORCOAT to form a continuous, uniform film by using spray, brush, short-nap roller or lambs wool applicator. An airless sprayer (low-pressure with tip not exceeding 0.015) will give best results for larger areas. Regular LAMBCO® COLORCOAT application is a 2 (two) coat process, with the first coat being for soaking and penetration and the second for finishing and sealing. The second coat is applied after waiting the 2-4 hours dry time. Due to current VOC regulations, we cannot recommend dilution of LAMBCO® COLORCOAT. However, some users have reported deeper penetration successes on the first coat by adding small amounts of lacquer thinner (1 quart per gallon – 250mL/L) prior to application. When using a roller always roll second coat at right angles to the first coat. Use moderate pressure to help force the coating into and the air out of the concrete surface pores. Apply LAMBCO® COLORCOAT like a lacquer. True color definition is not achieved until second coat is thoroughly dry. CAUTION: Rollers tend to incorporate more air into product during application causing air bubbles (especially if over-worked).

Pool Decks

Follow same procedure as above with exception for the following: Pool decks usually have black algae stains. Algae are bacteria and therefore must be killed with chlorine. Correct method for cleaning algae is to use straight Clorox® and scrub thoroughly, then rinse with clean water. After rinsing, follow acid etch procedure, remember to rinse with water before applying acid otherwise a harsh chemical reaction will occur. When selecting color for pool decks, choose a light color that will be cooler to bare feet and consider using Lambert's texturing additive for slip resistance. LAMBCO® COLORCOAT does not promote slippage when used on a textured surface. However, water and other liquids when retained on a smooth surface will increase to some degree the slip potential. Responsibility for specifying or applying LAMBCO® COLORCOAT is the users and Lambert's liability is restricted to the warranty.

	Packaging:
	5-gal (19-L)
	PAIL

PIGMENTED CONCRETE
COATINGS

LAMBCO® COLORCOAT

MASTER FORMAT: 09 93 13



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Dry Time

Under normal conditions, 12 hours is required for light foot traffic. Depending on weather conditions and humidity, heavy traffic can be accommodated in 72 hours. If heavy objects such as patio furniture, planter boxes, etc. are to rest on the surface, wait a minimum of 72 hours before positioning.

Special Instructions - Garage Floors

Hot automobile tires containing plasticizer compounds can soften and fuse with the LAMBCO® COLORCOAT surface resulting in pick-up of the LAMBCO® COLORCOAT on tires prior to full cure. This can also happen if LAMBCO® LAMBCO® COLORCOAT penetration into the concrete pores is minimal.

Follow these instructions if pick-up occurs

- Scrape off all poorly bonded LAMBCO® COLORCOAT.
- Scrub with acid and rinse with clean water.
- Rough up any glossy concrete.
- Wait 72 hours before driving on new LAMCO® COLORCOAT.
- Protect pick-up areas under tires with heavy grade cardboard for 14 days.

Texturing Additive

Lambert's texturing additive is a micronized crystalline polymer that is specially machined to provide a unique texturing (slip resistant) aggregate for LAMBCO® COLORCOAT. The particle size is carefully controlled to produce a uniform moderate textured type surface. The rounded shape of the particles will provide optimum abrasion resistance without irritating sharp edges thus allowing for easier surface cleaning than other aggregate textured surfaces. Lambert's texturing additive is gentle to bare feet when compared to silica-type aggregate additives making it a high priority item for pool decks and patio areas.

Limitations

LAMBCO® COLORCOAT must penetrate the concrete surface to be an effective surface treatment. Smooth, glassy, non-porous concrete must be sandblasted or etched with a solution of muriatic acid to open the pores of the concrete surface, so penetration can be achieved. It is not designed to be used over other paints, waxes, or concrete cure and sealing compounds. If penetration cannot be achieved the LAMBCO® COLORCOAT will not bond properly to the concrete substrate thus lessening the wear properties.

LAMBCO® COLORCOAT is not designed for areas where continuous spillages of petroleum products (gasoline, hydraulic oils, etc.) may be expected, in areas where LAMBCO® COLORCOAT will be submersed continuously in water (swimming pools), or in areas subjected to metal-wheeled traffic.

Apply in good weather when air and surface temperatures are above 40°F (4.4°C) and rising. Surface temperature must be at least 5°F (2.8°C) above dew point. If surface is very hot - 100°F (37.8°C) or more – LAMBCO® COLORCOAT may dry too quickly and may not achieve satisfactory bond. This type of product should not be applied if rainy weather is expected within a 10-hour period after application. For optimum application properties, bring material to 70-80°F (21.1-26.7°C) temperature range prior to mixing and application. LAMBCO® COLORCOAT will in time fade and lose the "wet" look when continuously exposed to the ultraviolet sunlight rays.

Test areas should always be applied when unfamiliarity of surface and/or product exists. This will determine if the surface is properly prepared, probable coverage and the method best suited for application. Apply the LAMBCO® COLORCOAT sample to the actual job surface using the application method that will be used at the job site. Under some circumstances, the application of LAMBCO® COLORCOAT can accentuate certain variations of the surface. Special consideration should be given patches and all surfaces of different porosity rates. Surface texture and varying porosity rates will accept LAMBCO® COLORCOAT with varying intensities thus color changes are possible.

Technical Data

Chemical Resistance

Viscosity: #4 Ford Cup	30-40 Sec.	Industrial Acids – Excellent	Alkali – Excellent
Solids:	30% - 38%	Aliphatic Solvents – Good	Aromatic Solvents – Fair
Flash Point:	110°F (43.3°C)	Gasoline – Fair	Grease – Excellent
Dry Time:		Mineral Oil – Excellent	Vegetable Oil – Excellent
Tack Free	30 Minutes	Animal Oil – Excellent	Soaps – Excellent
Hard Film	4 Hours	Water - Excellent	
Max. Hardness	7 Days		

Coverage

First Coat – 75-150 ft2 per gallon (1.8-3.7m2/L)
 Second Coat – 100-225 ft2 per gallon (2.5-5.5m2/L)

Because of the variety of surfaces and porosity of concrete under which LAMBCO® COLORCOAT is applied, coverage will vary from 75 to 150 square feet per gallon (1.8-3.7m2/L) for the first coat (soak coat) on most substrates. Absorption rates of the first coat will always depend upon the porosity and texture of the substrate. Coverage rates on the second coat (sealer coat) should exceed that of the first coat by approximately 40-50%.

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Clean-Up & First Aid

Clean tools and equipment with lacquer thinner.

Inhalation: Remove to fresh air.

Eye and Skin Contact: Promptly wash eyes with plenty of water for 15 minutes. Consult a physician if irritation persists. Wash skin with soap and water.

Ingestion: Drink plenty of water, may cause irritation of the mouth, throat, or stomach. Do not induce vomiting. Seek medical attention for all overexposures.

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