



1. PRODUCT NAME

**LAMBCO®
SELF-LEVEL**

Cement based, self-leveling, exterior wearing surface or an interior underlayment system.

2. MANUFACTURED FOR
LAMBERT CORPORATION
20 N. COBURN AVENUE
ORLANDO, FLORIDA 32805
PHONE (407) 841-2940
TOLL FREE 800-432-4746
FAX (407) 839-1890

3. PRODUCT DESCRIPTION

LAMBCO® SELF-LEVEL is a polymer modified cementitious system designed for leveling and smoothing concrete. It is a portland cement blend that produces a pourable and pumpable compound when mixed with clean potable water. LAMBCO® SELF-LEVEL is a product that will seek its own level producing a hard flat surface. It can be placed over properly prepared broomed or roughened concrete and wood substrates at thicknesses from 1/4"(6.4 mm) to 1"(25 mm). A primer coat of LAMBERTS ACRYLBOND™ or EPIWELD® concrete bonding agent is required for all substrates to ensure proper adhesion. LAMBCO® SELF-LEVEL is cement based and compatible with common floor covering adhesives.

Advantages

Self leveling, superb workability.
 Pumpable with low water demand.
 Fast drying - suitable for foot traffic in 4 hr
 Floor coverings can be applied in 24 hours.
 Portland cement based.
 Water resistant when cured.

Basic Use - LAMBCO® SELF-LEVEL is use for eliminating high and low spots or leveling off uneven, rough floors. Ideal as an underlayment for surfaces to be covered with carpeting, vinyl, asphalt, ceramic tile, wood flooring, and many other compatible coverings. Usage also includes exterior light wearing type surfaces.

Limitations - Ambient temperature while pouring and curing need to be within the ranges of 40°F (4.4°C) to 90°F (32.2°C). DO NOT APPLY when the floor temperature is below the dew point and the relative humidity is above 90%. Material is not to be over-watered.

LAMBCO® SELF-LEVEL is designed to be used as a light duty wearing surface. Substrates must be clean and properly prepared. This product should not be placed over gypsum based or light-weight concrete surfaces. LAMBCO® SELF-LEVEL should not be applied to cracking type substrates. Light-weight concrete will normally crack for months after installation. Floors with deflection in excess of L/360 should be braced or suitably stiffened prior to installation of SELF-LEVEL material.

Composition and Materials

Polymer modified cementitious formula. Contains no asbestos or gypsum.

4. TECHNICAL DATA

Compressive Strength..... 4000 PSI (27.6 MPA)
 Adhesion Strength..... 300 PSI (2.2 MPA)
 Initial Set Time..... 40 min.
 Final Set Time..... 4 hours

5. INSTALLATION

Before using this product, refer to the Material Safety Data Sheet for additional handling instructions. Proper handling precautions MUST be taken.

There are four key steps to the successful installation of LAMBCO® SELF-LEVEL.

1. Proper surface preparation.
2. Uniform primer application.
3. Proper liquid/powder ratio.
4. Continuous placement.

ALWAYS INSTALL TEST AREAS TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE PRIOR TO A FULL SCALE APPLICATION.

Surface Preparation

Improper surface preparation can result in less than acceptable LAMBCO® SELF-LEVEL performance. It is very easy to blame adhesion problems that occur, on the product that is used when poor surface preparation is really where the fault lies.

Broomed Or Rough Concrete Surfaces
 To ensure proper adhesion and maximum durability, the concrete surface must be sound, thoroughly cleaned of all cure/sealing compounds, dirt, dust, oil, wax, old paint, adhesives, and loose concrete. Deep holes, joints and cavities must be filled with LAMBCO® VINYL PATCH prior to placing the LAMBCO® SELF-LEVEL. Depending on surface to be treated, the following steps should be taken.

Concrete surfaces must be at least 30 days old to allow for proper hydration and release of mineral salts. Never apply SELF-LEVEL where mineral salts (efflorescence)

are present. The salts break down the bond of cement products. These salt areas need to be sandblasted or acid etched to produce an acceptable sound and open substrate.

Degrease any areas that are soaked with oils or greases. Areas that have acrylic resin concrete cure/seals, waxes, paints, or any contaminants need to be properly removed. Wash all surfaces with a trisodium phosphate solution and rinse with clean water. All concrete must be acid etched, shot blasted, or sandblasted prior to applying ACRYLBOND™ primer. This should provide a medium porous type surface for penetration of ACRYLBOND™.

Correct acid etching procedure is as follows: Mix one part by volume muriatic or phosphoric acid into 10 parts water. Apply acid with plastic sprinkling container to a pre-dampened surface. After application immediately brush; thoroughly working the surface. Wait 10 minutes or until foaming stops, then thoroughly rinse with clean water. If a 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's imperative that surface be rinsed thoroughly with a 10% ammonia and water wash to ensure proper 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. Proper protective clothing, such as goggles, rubber gloves and boots are recommended when handling acids.

Slick Concrete Surfaces

Super slick concrete surfaces such as hard troweled concrete, terrazzo, etc. should be sandblasted, shotblasted, or otherwise roughened to aid in achieving adequate bond. An epoxy primer LAMBERT'S EPIWELD® 9-N-10 should be used over slick concrete surfaces.

Wood Floors

Wood floors should be rigid, clean, and have a tensile strength of 200 psi (1.2 MPA) maximum. Floors with deflection in excess of L/360 should be braced or suitably stiffened prior to installation. Sanding will remove most of surface contaminants. Fill all joints with a wood glue and tape the edges with a thin two way industrial tape. Nail down any loose wood. Apply a thin galvanized, diamond metal lath mesh nailed or stapled on 6" centers to provide a mechanical bond.

Application - Surface Priming

Stir ACRYLBOND™ well prior to use. Make sure no settling has occurred. ACRYLBOND™ should be used straight from container with no dilution for maximum bond strength when priming. If concrete or wood substrate is very porous, predampening with water will prevent rapid water absorption from ACRYLBOND.

Apply ACRYLBOND™ uniformly with a soft pushbroom to form a continuous thin film over the entire surface to be bonded. Allow to penetrate and dry to a tacky state. Remove any puddles of ACRYLBOND prior to placing SELF-LEVEL. The bonding film (glue line) must be tacky when applying SELF-LEVEL to the film. If primer coat has dried to a hard film, rough up film with an abrasive and reapply a fresh coat of ACRYLBOND™. Porous areas may require 2 applications.

Difficult non-porous, super slick substrates require LAMBERT'S EPIWELD® 9-N-10 epoxy primer in place of ACRYLBOND. The EPIWELD® must be tacky at time of SELF-LEVEL application. See the Product Data Sheet on EPIWELD® 9-N-10 for correct application instructions.

Floors that are not properly primed will not stick and have pinholes in the surface. Do not use paint rollers or brushes when applying primer because they entrap air. The object of priming is twofold: to create an adhesive or glue line and to seal the substrate to prevent air release from the subfloor rising and forming bubbles and pinholes on the surface of the LAMBCO® SELF-LEVEL compound being applied.

Mixing

Add the powder to the water in the mixing container. Add 6-1/4 to 6-1/2 quarts (5.9 to 6.2 litres) of clean potable water to the mixer. **DO NOT OVER WATER. OVER WATERING WILL CAUSE BLEEDING.** Then while mixing add the powder, mix for 3 to 5 minutes until the material is fluid and free of lumps. If the sides of the mixer develop powder build-up, scrape sides and continue mixing until powder and lumps break up in the mix. If area to be covered is small, a 1/2" (13 mm) drill and a mixing paddle with a 5-gallon (19 litre) pail is sufficient. The 1/2" (13 mm) drill must be a variable speed drill to control the shear and mixing speed. If the area is large a concrete pump machine is necessary. For applications over 1" (25 mm) thick add 20 pounds (9 kg) of 1/8" (3.2 mm) maximum fine aggregate to each bag. Mix SELF-LEVEL with water first, then add aggregate. If aggregate is wet, reduce water to avoid overwatering mix.

Merge Time

Material should be placed continuously in 20-30 minutes. Use of a smoother or spreader is recommended in certain applications if material can not be merged within this time frame.

Continuous Placement

Pour or pump the material onto the substrate. Spread SELF-LEVEL with a spreader or screed. Then smooth material

with a smoother. Material should level out in the first 5-8 minutes after applying to the substrate. With a pump application, work the hose in equal spacing 6" (150 mm) streams. Sufficient material should be used to adequately cover all high points. The entire thickness must be achieved in one application. Avoid ridges between batches. If high spots or splashes occur these can be pared off with the edge of a trowel after initial set. **DO NOT ATTEMPT TO FLOAT THE SETTING SURFACE.**

Curing and Sealing

LAMBCO® SELF-LEVEL is self curing under normal conditions, however, it must be protected from conditions that will cause rapid drying such as wind and high temperature with polyethylene sheeting.

Limitations

It is recommended that feather-edges be avoided and sawcutting or chipping to a minimum depth of 1/4" (6.4 mm) be done. The conditions of your use and application of our products and information (whether verbal or written), including any suggested formulations and recommendations, are beyond our control. Therefore it is imperative that you test our products and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application/specific analysis at least must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint.

6. COVERAGE

30 square feet (.73 m²) at 1/4" (6.4 mm) per 55 lb. (25 kg) bag.
ACRYLBOND™-250 square feet per gal. (6.1 m²/litre)
EPIWELD®9-N-10 - 80 square feet per gal. (2.0 m²/litre)

7. PACKAGING

55 lb. (25 kg) bag

8. CLEAN-UP

ACRYLBOND - In case of spillage, flush area with large amounts of water, place into appropriate container, and dispose of in accordance with applicable local regulations. Uncured ACRYLBOND can be removed with water. Cured ACRYLBOND can be liquefied with lacquer thinner.

LAMBCO® SELF-LEVEL - 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.

LAMBCO® SELF-LEVEL contains some silica sand which can cause Silicosis. Avoid overexposure to the airborne dust. Practice good housekeeping, protect food and drink.

9. WARRANTY NOTICE

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: LAMBERT CORPORATION, (Seller) warrants that if any goods supplied prove defective in workmanship or material, that Seller shall replace them or refund their purchase price. **THIS WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS WHICH ARE HEREBY DISCLAIMED. IT IS UNDERSTOOD AND AGREED THAT BUYER'S SOLE REMEDY, AND THEREFORE SELLER'S LIABILITY, WHETHER IN CONTRACT, TORT, UNDER ANY WARRANTY, IN NEGLIGENCE, OR OTHERWISE SHALL BE LIMITED TO THE RETURN OF THE PURCHASE PRICE PAID BY PURCHASER OR REPLACEMENT OF ANY DEFECTIVE GOODS SOLD BY SELLER AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. THE PRICE STATED FOR THE GOODS IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY.** Any liability or risk resulting from the use of this product is assumed by the PURCHASER/USER except where a specific warranty is provided by the manufacturer in writing. Before application, the PURCHASER USER shall determine the suitability of the product for his intended use and PURCHASER USER assumes all liabilities and risks whatsoever in connection therewith. The terms of this WARRANTY NOTICE may not be orally modified. **THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.**

10. PRODUCT LIABILITY

LAMBCO® SELF-LEVEL is manufactured by others to LAMBERT specifications. SELF-LEVEL is designed to be used in the construction industry and should be applied by competent persons in accordance with current published instructions. Technical advice and recommendations as to the suitability of product for any particular use are made in good faith. However, we have no control over the conditions under which our products are transported to, stored, handled, or used by the customer. We cannot be held responsible for difficulty caused by other materials and conditions, or by inferior workmanship. LAMBERT recommends that the customer satisfy themselves as to the product's actual suitability for its intended purpose.

LAMBERT reserves the right to have the true cause of any difficulty determined by accepted test methods by an independent party. Any claim regarding product defect must be received in writing 1 year from day of shipment. No claim will be considered without such written notice or after the specified time interval.