



## Product Description

RENEW COAT<sup>™</sup> is a high quality, factory prepared cementitious repair and resurfacing material requiring only water to mix. It is composed of a specially formulated polymer resin, a blend of dry powder cement ingredients and other proprietary additives designed to provide high strength and reduced cracking. The resin is a high solids acrylic polymer that gives a better bond, increased water resistance, chemical resistance, tensile strength, and improved flexibility over standard portland cement concretes.

RENEW COAT<sup>™</sup> is available in two formulations; the difference being only a gradation of sand. RENEW COAT<sup>™</sup>- C (Coarse) is produced with a mixture of fine and coarse sands that make it suitable for broom finishing, while RENEW COAT<sup>™</sup>- F (Fine) is produced using only fine sands that allow for smoother more uniform finishing capabilities on shallow depth applications below 1/2-inch (12.7mm).

## 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.

There are four key steps to the successful installation of RENEW COAT<sup>™</sup>.

1. Proper surface preparation
2. Proper liquid/powder ratio
3. Pre-dampened substrate
4. Uniform application

## Surface Preparation

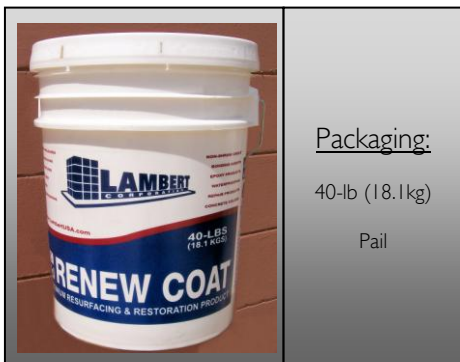
Improper surface preparation can result in less than acceptable RENEW COAT<sup>™</sup> performance. It is very easy to blame adhesion problems that occur on the product when poor surface preparation is really where the fault lies.

To ensure proper RENEW COAT<sup>™</sup> adhesion and maximum durability, the concrete surface must be sound - free of laitance, cleaned of all dirt, dust, salts, loose plaster, mold, mildew, algae, etc. Surface must be at least 30 days old to allow for proper cement hydration and release of mineral salts. Salts break down the bond of cement products such as RENEW COAT<sup>™</sup>. These salt areas need to be water blasted, sand blasted, or acid etched to produce an acceptable sound and open surface for bonding. Deep holes, cavities, and cracks must be filled prior to placing.

Water blasting with low-pressure jets may be effective in some cases. High pressure water blasting is very effective. Use a high-pressure pump of 2000-3000 PSI (13.8-20.7MPa) - to produce a rough surface. If pressure cleaning, do not acid wash.

Acid etching has been used widely to remove salts, laitance and dirt from concrete. If acid etching is to be used, the surface should be pre-cleaned to remove any build-up of dirt or other contaminants. Acid will not penetrate a build-up of these materials. 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 with a stiff bristle street broom or brush to spread the acid solution evenly over the surface, thoroughly working the surface. Wait 10 minutes or until foaming stops, then thoroughly rinse/flush with clean water. The rinse/flush operation is most important in order to remove reactive products and loose cement/aggregate. If hard/smooth concrete exists, a stronger acid solution may be required. Where strong acid solutions are used, it is imperative that surface be rinsed thoroughly with a 10% ammonia and water wash to ensure proper neutralization.

**NOTE:** Acid, if not neutralized, will bleed through and may cause delaminating or deterioration of the RENEW COAT<sup>™</sup>. The final (pH) of the cleaned, etched surface should be neutral (7) or slightly alkaline. 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. If RENEW COAT<sup>™</sup> is to be used to re-surface a previously painted surface, the surface should be sand blasted removing all paint.



## Packaging:

40-lb (18.1kg)

Pail

## Application – Mixing

Add clean water into a mixing container and then add the RENEW COAT<sup>™</sup> to the water. Add only enough RENEW COAT<sup>™</sup> to bring the mix to a smooth, lump-free consistency; approximately 40 pounds (18.1kg) of dry mix to 3 quarts (2.8L) of water. Mix for 2 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-inch (12.7mm) drill and a mixing paddle with a 5 gallon (18.9L) pail are sufficient. The 1/2-inch (12.7mm) drill must be a variable speed drill to control the shear and mixing speed.



RESURFACE REPAIR  
HORIZONTAL

RENEW COAT®

MASTER FORMAT: 03 01 30 . 72  
32 01 29

### Application - Push Broom, Trowel

The substrate should be misted/pre-dampened with water prior to the application of the mixed **RENEW COAT™** to cut down the substrate suction and to allow for equal absorption so the applied material can cure naturally. Apply mixed **RENEW COAT™** with push broom, trowel, or hopper-gun spray equipment. If substrate becomes dry, mist area with water again. Apply a tight thin coat and then double back with another coat if desired. Allow applied **RENEW COAT™** material to stiffen sufficiently and let the moisture leave surface then finish to desired texture.

### Application – Hopper-Gun Spray Equipment

The hopper gun is filled with mixed **RENEW COAT™** material. The hopper gun used is similar to that in the drywall industry. Since the air pressure setting can be regulated and the dial on the hopper gun face can be regulated, texture and roughness can be controlled. Follow the equipment manufacturer's instructions.

### Limitations

Substrates must be clean, sound, and properly prepared. Ambient temperature while applying and curing the **RENEW COAT™** needs to be within the range of 50-90°F (10.0-32.2°C). DO NOT APPLY when the substrate temperature is below the dew point and the relative humidity is above 90%. Never apply the **RENEW COAT™** where mineral salts (efflorescence) are present. The salts break down the bond properties of cement products. Do not attempt to re-temper after initial mixing and do not add other cements or admixtures. Mixing equipment should be cleaned with water at the earliest time. Where hard trowelled, glassy smooth concrete is encountered, it is recommended that the surface be scarified, acid etched, or sandblasted, then thoroughly rinsed with clean water. Surface should have a profile of miniature ridges and valleys that give concrete "teeth" to form a successful bond. Concrete substrates to be repaired must be pre-dampened but no standing water should remain. Insufficient moisture at the bond or glue line can result in a weakened bond.

Unsealed **RENEW COAT™** is susceptible to "black-marking" from the rubberized wheels of traversing motorized vehicles. LAMBERT CORPORATION suggests the use of a silicate-based penetrating sealer such as Gardseal® to prevent potential issues. Joints or cracks in the base concrete will telegraph through **RENEW COAT™**. For best results, install new joint system, especially in larger surface areas.

**RENEW COAT™** is a proven system as packaged. It is not for use in conjunction with other dry cement mixes or with other concrete bonding agents. **RENEW COAT™** is easily placeable and trowellable from 2" (5cm) down to featheredge. **RENEW COAT™** can be used for small "pocket" type repairs up to 2" depths.

### Technical Data

Compressive Strength	2" cubes ASTM C-109
6 Hours	1522 PSI (10.5MPa)
1 Day	2217 PSI (15.3MPa)
7 Days	4123 PSI (28.4MPa)
28 Days	5271 PSI (36.3MPa)

### Set Time

- Initial Set 10-20 Minutes
- Final Set 2 Hours 15 Minutes

### Bond Strength (ASTM C-882)

- Test 7 Days
- Bond 14.13 in<sup>2</sup> (91.16cm<sup>2</sup>)
- PSI 1533

### Coverage

Coverage will vary depending on condition of substrate. (Forty) 40-lbs (18.1kg) unit at 1/16-inch (1.59mm) deep covers:

- F - Fine: yields/covers 60-80 ft<sup>2</sup> (5.6-7.4m<sup>2</sup>)
- C - Coarse: yields/covers 70-90 ft<sup>2</sup> (6.5-8.4m<sup>2</sup>)
- Squeegee method yields/covers up to 100 ft<sup>2</sup>

### Clean-Up

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

### First Aid

**RENEW COAT™** - 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.

**RENEW COAT™** contains some silica sand which can cause Silicosis. Avoid overexposure to the airborne dust. Practice good housekeeping, protect food and drink.

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