

# TILT COAT

Revision: September 2011  
Supersedes all previous publications



## Product Description

LAMBCO® TILT COAT is a portland-based system with select aggregates and additives for smoothing and rubbing thin patching applications. LAMBCO® TILT COAT is packaged as a dry powder requiring only the addition of clean potable water or Lamberts liquid acrylic polymer concrete admixture. LAMBCO® TILT COAT is a blend of the following raw materials: Portland Cements that provide high early strengths, specially selected aggregates for hardness and finishing qualities, special additives to control set rate and increase the cohesive bond strength of LAMBCO® TILT COAT. This unique blend of raw materials provides superior workability and smoothness while providing moisture retention for spreading and rubbing. LAMBCO® TILT COAT is designed for quick repair work to restore old concrete structures. It has an initial set time of 30 minutes and a final set time of 90 minutes. LAMBCO® TILT COAT is used to restore old concrete, rub out columns, repair honeycombs, chips or voids in precast or poured-in-place concrete. This product can be used up to 1/4-inch (6.4mm) thick, without the addition of coarse aggregate.

## 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® TILT COAT performance. Poor adhesion issues are usually due to improper surface preparation. Concrete substrates should be properly cured and structurally sound. To ensure proper adhesion, the surface must be thoroughly cleaned of all dirt, dust, grease, oil, wax, release agents, curing and sealing compounds, loose or weak concrete or anything else that would interfere with the normal concrete bond or the chemical action bonding of cementitious products.

## Mixing And Placement

Add LAMBCO® TILT COAT to water, use enough water to make LAMBCO® TILT COAT into a soft putty-like consistency. LAMBCO® TILT COAT may be mixed by hand or using a low speed mixing drill. DO NOT entrap air into mix.

Mix a 40-pound (18.1kg) unit of LAMBCO® TILT COAT with 1-1/4 to 1-1/2 gallons (4.7-5.7L) of potable water per 40 lb (18.1kg) bag. Care should be taken not to make mixture too soupy. Use only clean potable water for mixing. Lambert's liquid acrylic polymer concrete admixture may be used as an admixture in place of water to increase bond for paper-thin applications. For repair depths greater than 1/4-inch, use LAMBCO® TILT COAT in multiple tiers to achieve desired depth.

In hot weather applications, substrates should be protected from direct sunlight and wind. Frequent misting of the substrate with water will significantly reduce the surface temperature prior to application. Do not re-temper or add other cement or chemicals. Do not use LAMBCO® TILT COAT on an area where the temperature is or will be below 45°F (7.2°C). During cold weather, it is suggested to store product at room temperature for 24 hours before application.

## Curing

Curing is essential to achieve maximum strength. Fog cure, spray mist or sprinkle with water in hot or windy conditions. DO NOT allow water to pond on areas where LAMBCO® TILT COAT has been applied.

## Limitations

During periods where the temperature is or will be above 95°F (35°C), within 24 hours of application, repairs should be undertaken with caution because of potential rapid water loss in the LAMBCO® TILT COAT material creating a bond failure. In general, LAMBCO® TILT COAT should not be applied to hot substrates, in hot direct sunlight, or in high wind areas without paying proper attention to the problem of rapid water loss.

Compressive Strength	(ASTM C-109)
7 Days	3240 PSI (22.3 MPa)
28 Days	3810 PSI (26.3 MPa)

Set Time	(ASTM C-191)*
Initial Set	30 Minutes
Final Set	90 Minutes

\*TILT COAT will vary in set time when temperatures vary. Cold temperatures slow set time, hot temperatures speed up set time.

## Coverage

40 lb (18.1kg) bag of LAMBCO® TILT COAT mixed with 1 1/4 to 1 1/2 gallons (4.7-5.7 liters) of water, or Lambert's liquid acrylic polymer concrete admixture will cover approximately 40 ft<sup>2</sup> (3.72m<sup>2</sup>) at 1/8-inch (3.2mm) thick.

## Clean-Up

Avoid skin and eye contact. Safety goggles, rubber gloves, and the use of a NIOSH/MSA approved dust respirator is recommended. In case of skin contact, flush with water. For eyes, flush immediately with plenty of water for 15 minutes, and contact a physician. Wash clothing before re-use.

## 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. DO NOT RUB EYES. Product contains some silica sand that can cause SILICOSIS. Avoid over-exposure to the airborne dust. Practice good house-keeping. Any food, drink or chewing product should be protected from the dust.

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

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RESURFACE REPAIR  
VERTICAL / OVERHEAD

TILT COAT

MASTER FORMAT:

Packaging: 40-lb (18.1kg) Bag
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