

UV SAFE SEAL™

Revision: September 2011
Supersedes all previous publications



Product Description

UV SAFE SEAL™ is an acrylic resin based product formulated into a high quality concrete sealer, dustproofer and curing compound. It has excellent adhesion to cementitious surfaces both exterior as well as interior and when cured forms a tough impervious film. **UV SAFE SEAL™** is a thin liquid designed to penetrate into the pores of the concrete filling them with styrene and acrylic resin which gives the concrete surface the maximum protection from wear and penetration of salts, dirt, or other contaminants.

UV SAFE SEAL™ may also be used as a curing compound when applied to fresh concrete. The film forming qualities of this product minimize moisture vapor trans-mission resulting in excellent water retention in fresh concrete for better curing and hardening.

When used on new concrete it acts as a curing compound for proper cement hydration (one coat only). When used on old concrete it seals and dust proofs the surface (two coats are recommended for most surfaces).

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

Surfaces must be thoroughly cleaned and dry. Remove all dirt, waxes, poorly bonded paints or coatings, efflorescence, laitance and any other foreign material. Apply test to determine bond and compatibility.

Application

Do not dilute or alter product. Apply with spray, brush, roller, or lambs wool applicator. On smooth concrete use spray, lambs wool applicator or short-nap roller. On rough concrete (broomed or textured) use spray, brush, or long-nap roller. Caution - rollers tend to incorporate air into product during application especially with excessive rolling. Apply uniformly to form a continuous film on the surface without thick or ponded areas. If necessary to brush apply, take care to flow material on surface evenly. Overbrushing can cause foaming, pinholes and an unsightly appearance. A power airless sprayer will give best results for large areas. Industrial low pressure type pump sprayer will be best for relatively small areas. To ensure proper application with sprayers, use only clean or new industrial grade sprayer equipped with a non-adjustable fan tipped nozzle. Maintain sufficient pump pressure throughout application. Uniform surface coverage is essential, avoid puddling in low areas. If material starts to come out of nozzle in a stream, versus a fog/spray, or starts to come out in spits and sputters, the nozzle has become clogged. Stop immediately and clean nozzle with lacquer thinner before proceeding. Clean the sprayer immediately after use with lacquer thinner.

In adjusting the sprayability, it is best to start with the smallest possible tip opening and lowest possible pressure, then adjust to optimum atomization. Spraying at the lowest possible pressure eliminates unnecessary turbulence that generates excessive foam and overspray. To prevent clogging of gun tip during work stoppages, it is important to immerse gun tip in water

Limitations

Concrete overlays and toppings will not bond to **UV SAFE SEAL™** treated surfaces. Ceramic tiles that will be bonded with a cement base mortar grout will not bond to treated slabs.

UV SAFE SEAL™ should not be applied over standing water (surfaces can be damp, no puddles), over bituminous asphalt or resilient tiles.

Prolonged exposure to moisture or water may result in a temporary milky appearance that clears upon drying. This is particularly true on textured or stone surfaces. Do not apply if rain is forecast 24 hours after application. Apply only when air, surface and material temperature is 50°F (10.0°C) and rising.

Lambert's liquid chemical hardening compounds will not penetrate concrete slabs that have been treated with **UV SAFE SEAL™**. **UV SAFE SEAL™** is compatible with many carpet, composition tile, and other floor covering adhesives however, a test section is recommended prior to use because of the variety of new adhesives being introduced to the market. Complete removal of the membrane may be required for certain carpet, tile, and floor covering adhesives. Contact Lambert Corporation for compatible products.

Do not apply in presence of fresh or packaged foodstuffs unless they are protected from contamination. In if doubt, remove foodstuffs from area.

Although **UV SAFE SEAL™** is a clear film, any clear coating can change the light refraction characteristics of the surface giving the visual effect of a slight color change. Differences in porosity and non-uniformity of application on smooth masonry/concrete might affect the even distribution of **UV SAFE SEAL™**. Application will give a colored concrete surface a glossy wet look and will generally deepen the color. It will accentuate color variations or trowel burns. Always coat a test area to determine acceptability and to assure desired aesthetic results.

The placement of **UV SAFE SEAL™** on walking surfaces such as patio decks, pool decks, etc. can affect the skid resistance of the surface. The user must determine prior to the application if this would be a problem. **UV SAFE SEAL™** on a walking surface, when wet or in the presence of oils, etc. can make the surface slippery and perhaps hazardous. The user should check by trial application to determine if this would be a problem.

Packaging:

55-gal (209-L)
Drums

5-gal (18.9L)
Pails



CURE AND SEAL PRODUCTS

UV SAFE SEAL™

MASTER FORMAT: 03 35 33
03 39 23 // 32 13 16 . 23 // 32 16 00

Technical Data

Applicable Standards

- ASTM C-1315, Type I, Class B
- ASTM C-309, Type I, Class A & B
- ASTM C-156 (Test Method)
- AASHTO-M-148, Type I, Clear

Engineering Data	
Color (Gardener Scale)	No. 1
Solids	25% by Weight
Flash Point	85°F (29°C)
Freeze Thaw	In Test
Weight Per Gallon	7.75 lbs (0.93kg/L)
Viscosity	22 Sec. 4 Ford Cup

Dry Time* 65°F to 85°F (18.3°C to 29.4°C)	
Tack Free	60 Minutes
Light Traffic	2 – 4 Hours
Normal Traffic	24 – 36 Hours
Maximum Hardness	72 Hours

*The drying time of water-based materials is directly influenced by humidity and temperature. Low air temperature or low concrete substrate temperature and high relative humidity will extend drying times. **STIR WELL BEFORE USE.**

Chemical Resistance	
10% - Sulfuric Acid	Excellent*
10% - Hydrochloric Acid	Excellent*
10% - Nitric Acid	Excellent*
40% - Sodium Hydroxide	Excellent*
100% - Vegetable Oil	Excellent*
100% - Mineral Oil	Excellent*
Aliphatic Solvents	Good*
Hydraulic Oil	Poor
Aromatic Solvents	Poor
Gasoline	Poor

*Good maintenance is essential in areas where chemical spillage is likely to occur. It is especially important that such spillage not be allowed to dry. **UV SAFE SEAL™** will offer temporary protection to aliphatic solvent spillages but is not designed for areas where continuous spillages of petroleum products (gasoline, hydraulic oils, etc.) may be expected.

Coverage

- 200 to 400 ft² per gallon (4.9-9.8m²/L) depending on texture and porosity of surface.

Clean-Up

Clean brushes, tools, sprayers, rollers and other equipment with lacquer thinner, toluol, or xylol.

First Aid

Eye Contact - Hold eyelids open and immediately flush with plenty of lukewarm water for at least 15 minutes and call a physician.

Skin Contact - Wash thoroughly with soap and water. If irritation persists, seek medical aid.

Inhalation - Remove from exposure, administer oxygen if breathing is difficult.

Ingestion - Do not induce vomiting. Call a physician immediately.

Safety Equipment - Solvent resistant gloves, goggles, mine safety mask and canister.

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