

Manufacturer:  
Seal 'n Lock System Corp.  
13215 N. Nebraska Ave. Bldg. A  
Tampa, Florida 33612  
Office: 813.852.1500  
Fax: 813.304.2442  
[info@SealnLock.com](mailto:info@SealnLock.com)  
Emergency Tel: USA 1-800-535-5053  
Emergency Tel: Int'l +1-352-323-3500  
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## Product Data/Application Guide

THE FIRST 'ALL IN ONE DAY' PROCESS

# Efflo-Remover

## Paver Efflorescence Remover

**Description:** Efflo-Remover is a synthetic acid that is 100% Biodegradable, Non-Corrosive, Non-Regulated, and a Non-Skin Irritant. Efflo-Remover is made using Acid Replacement Technology (ART).

### Advantages:

- 100% Synthetic Acid
- Patented ART Technology
- Approved & Certified
- OSHA Compliant
- DOT Classification: Not Regulated
- Low Contributor to BOD/COD in Effluents
- A low pH Organic Salt that is used to replace traditional harsh acids
- No Phosphates
- Non-Fuming
- Safe on all Surfaces
- Safe on Skin
- Removes Efflorescence Quickly and Efficiently
- Up to 10 times more effective than other Industry Products when removing Efflorescence

**ESTIMATING GUIDE:** Depending on the severity of the efflorescence, when diluted with equal parts of water, one can expect about 200-300 sq. ft. per gallon. Results are dependent on method of application, porosity of pavers and whether the efflorescence is primary or secondary and may take a few applications.

**DIRECTIONS FOR USE:** Apply Efflo-Remover to a small area at a time, so that the acid does not dwell for long periods of time, wait for Efflo-Remover to stop fizzing (App. one minute) before pressure washing. For best results use a pressure washer to remove the whitish calcium deposits. Always test Efflo-Remover to a small area with the ratio of water to acid. (Example 4 parts water to 1 part Efflo-Remover) and adjust to the severity of the efflorescence to be removed.

## Efflorescence Explanation

Efflorescence is a natural and random occurrence inherent in concrete products. It can materialize at any time following the completion of a project and it does not mean that the product is defective or damaged. Calcium in the concrete is carried to the surface by moisture and when it reacts to carbon dioxide in the air it can leave a white haze on the product. The structural integrity of the product is not compromised by efflorescence. There are also specially designed cleaners to remove efflorescence, but in most cases the recommended procedure is to allow it to dissipate over time. Efflorescence is a whitish powder-like deposit which can appear on concrete products. When cement hydrates (hardens after adding water), a significant amount of calcium hydroxide is formed. The calcium hydroxide is soluble in water and migrates by capillary action to the surface of the concrete. A reaction occurs between the calcium hydroxide and carbon dioxide (from the air) to form calcium carbonate, which is called efflorescence. Efflorescence does not affect the structural performance or durability of concrete pavers. The reaction that takes place is the formation of water soluble calcium bicarbonate from calcium carbonate, carbon dioxide and water. It may appear immediately or within months following installation. Efflorescence may reach its peak in as short as 60 days after installation. It may remain for months and some of it may wear away. If installation takes place during a dry period of the year, the next cycle of wet weather may sometimes be necessary for efflorescence to materialize. If there is a need to remove deposits before they wear away, for best results use our Efflo-Remover efflorescence remover. The acid in proprietary cleaning chemicals is buffered and blended with other chemicals to provide effective cleaning without damage to the paver surface. They are generally applied in sections beginning at the top slope of the pavement. If the area is large, a sprayer is an efficient means to apply the cleaner. The chemicals are sprayed on the surface, and then power washed away. Results can be verified after letting the area dry for at least 24 hours. In most instances one application is sufficient. However, in severe instances of efflorescence, a second application may be necessary. Contact the manufacturer of the cleaning product to determine if a second application will not discolor the pavers or expose some aggregates. Note: Protective clothing, chemical resistant rubber boots and gloves, and eye goggles should be worn when applying acid. Since humidity has a definite effect on whether or not the salts appear, it can be assumed that efflorescence is a seasonal problem. The intensity of efflorescence increases after rainy winter seasons, decreases in spring, and by summer has practically disappeared. This cycle may repeat for months or years, but generally the intensity of the efflorescence decreases in all but very extreme cases, and by about the third year it should be practically eliminated.

**CLEANUP:** Immediately flush pump system after use with water. Always flush system with water the following morning to have it ready for use. Dispose of any excess acids properly if needed.

**STORAGE:** Efflo-Remover should be stored in a tightly closed container in ambient temperatures. Shelf life is one year.

**LIMITED WARRANTY:** Seal 'n Lock System Corp. provides a Limited Warranty of one (1) year for inherent defects in its materials or products only. Seal 'n Lock does not maintain control or oversight in the application of its products or materials.

Therefore, Seal 'n Lock cannot provide a guarantee for completed work. Seal 'n Lock is only responsible for claims that are submitted with proof of purchase of Seal 'n Lock material. Should a warranty claim be accepted by Seal 'n Lock, only the original purchase price of the product used will be applicable. It is solely the responsibility of the user of Seal 'n Lock products to test the product in a small inconspicuous place to ensure that the product is performing to the standards and specifications provided by Seal 'n Lock. Should the product not perform to its standards, the user should immediately cease application of product and notify Seal 'n Lock. At no time shall Seal 'n Lock be responsible for incorrect application or use of its products. In the case of incorrect application, including excessive application of sealer that may induce a slippery condition, or other use of Seal 'n Lock products beyond their recommended usage including acquiring the desired enhancement, the user assumes all responsibility and liability of products, ancillary materials, or persons that may be damaged as a result of the incorrect application. Seal 'n Lock does not warranty its product against natural disasters or acts of God or for a time period more than what is expressed in this Limited Warranty. There are no other warranties made by Seal 'n Lock whether expressed or implied other than this Limited Warranty as stated. This limited warranty excludes any liability for any consequential, incidental, indirect or special damages. Except for the limited warranty made above, manufacturer specifically disclaims and excludes any other express warranty, any implied warranty of merchantability of goods and implied warranty of fitness of goods for any particular purpose. Be sure your contractor provides you with a receipt for the purchase of the Seal 'n Lock product applied.

**CAUTION:** May be slippery during the application if walked on. May cause skin and eye irritation. Do not take internally. Wear mask. All label directions should be read thoroughly before use

KEEP OUT OF REACH OF CHILDREN