



## Polymer Modified Limestone Cement Coating

### PRODUCT DESCRIPTION AND USE

SunStone is a single component blend of Portland cement, different sizes of aggregate, crushed lime and polymer that has excellent adhesion to concrete. Is the ultimate architectural and concrete coating. A product so unique, it can be applied over a wide array of surfaces: concrete, brick, walls, foam, sheet rock, cinder block, hardiboard, stucco, pre-cast moldings, and much more... transforming ordinary surfaces into something unique. Now you can enjoy the look and feel of real quarried stone without the cost or weight of real stone!

SunStone was developed as an alternate to natural stone installation, without the demolition and construction required; SunStone can coat existing surfaces reducing labor and cost. Is ideal for pool deck concrete resurfacing product due to it's none skid properties, easy to clean and durability. Because of it's capabilities for large array of patterns and color effects, is also being used on driveways, patios, entryways, sidewalks, balconies, etc

### Chemical Composition

Portland cement, various sizes of sand, vinyl acetate emulsion, crushed lime and dry polymers..

### Colors

White. Can be stained with any SunStain color effects and combine with concrete color oxides to create natural accents that gives it a natural stone appearance.

### Limitations

- Surface must be mechanically prepared and dry.
- Concrete surface to be coated needs to be structurally sound.
- Do not install over soft surfaces such as vinyl or any rubberized coating.
- Do not install over metal or wood.
- Do not install if rain or cold weather is forecasted.
- Slab and ambient temperature 40° F and above

### TECHNICAL DATA

#### Physical Properties

Mixing Ratio:

Water.....4 quarts  
 SunStone Premix.....50 pounds

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Pot Life (77 degrees, 25% R.H.).....20 minutes

Pot Life is reduced by increasing humidity and/or temperature.

**Dry Times (77°F, 25% R.H.)**

Dry to Touch ..... 2 hour

Light Traffic.....6 hours

Vehicle Traffic.....72 hours

Full Chemical Resistance..72 hours

**Performance Properties**

Thickness (Typical).....1/4-1/2”

Bond strength (ASTM C297).....469 psi

Accelerated Aging Test (ASTM A756 D & E).....no effect

Freeze-Thaw (ASTM C-67).....No Breakage < 1% weight loss

Slip Resistance (S.C.O.F.) (ASTM C-1028)..... .81 Wet - 1.03 Dry

Abrasion Test (ASTM D-1242)..... .0328 in = 3000 psi Concrete

Absorption Test (ASTM S-570).....12.7%

Impact Resistance Mil D-3134 F.....No Breakage/<.62 in

**CHEMICAL AND STAIN RESISTANCE**

Heavy duty detergent solution.....no effect

Ammonia solution – 5%.....no effect

Prestone coolant.....no effect

Kerosene.....no effect

Soap solution – 1%.....no effect

Diesel fuel.....no effect

Turpentine.....no effect

Gasoline.....no effect

Paint thinner.....no effect

Tuolene.....no effect

Industrial detergent.....no effect

Salt 20% solution.....no effect

Transformer oil.....superficial darkening

Sulfuric acid – 3%.....superficial bleaching

Sulfuric acid concentrated.....considerable darkening

Hydraulic fluids.....considerable darkening

Lubricating oil .....superficial darkening

**GENERAL INFORMATION**

**Moisture Vapor Emissions/Alkalinity Precautions**

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission and related high levels of alkalinity that may lead to blistering and failure of the coating system. It is the coating applicator’s responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions or alkalinity are present before applying any coatings. These test kits are available from SDP. Sundeck Products USA, Inc. and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions or related high levels of alkalinity.

## **Surface Preparation**

If application is done directly over concrete, the surface must be clean, dry and profiled. Preparation must be done by shot blasting or diamond grinding. Surface must have a profile that resembles 100-120 grit sandpaper. If diamond grinding do not polish the surface. 30 grit diamonds are recommended. Remove any hollow or none structurally sound surface. Power wash surface and remove any standing water to eliminate contaminant residue.

## **Mixing Instructions**

For Base Coat application, mix per each 45 pound bag of Premix, 6 quarts of pre-mixed Sundek Additive (2 parts water, 1 part Additive). Mix for about 2 minutes and then proceed to install. For Texture application, mix per each 50 pound bag of SunStone, 4 quarts of water.

## **Application Recommendations**

For Base Coat applications, trowel, squeegee or hopper gun spray application may be used, for Texture Coat, apply by trowel at a ¼ in to ½ in thick. After it sets enough to withstand body weight without leaving a foot print, detail texture by sponge. Continue by carving pattern to the surface before is completely dry.

## **Recommended Coverage**

For Base coat, 200-300 sq. ft. per bag is recommended, although substrate profile will dictate final coverage. SunStone application should yield between 25-30 sq ft per 50 pound bag.

## **Handling Precautions**

Use only with adequate ventilation/or a cartridge type respirator designed to be used for concrete dust. Avoid contact with skin, wear protective gloves. Read Material Safety Data Sheet before using.

## **Slip and Fall Precautions**

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Sundek Products USA, Inc. recommends the use of angular slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Sundek Products USA, Inc. or its sales agents will not be responsible for injury incurred in a slip and fall accident.

## **WARRANTY INFORMATION**

Sundek Products USA, Inc. guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. SUNDECK PRODUCTS USA, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Sundek Products USA, Inc. shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Sundek Products USA, Inc. shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

