

Soterra Granite Sealer

deep penetrating water, oil & stain blocker

DESCRIPTION AND USE

Soterra Granite Sealer Repellent combines water and oil repellency on most substrates to prevent staining by waterborne and oily substances. This modified “neat” silane system offers invisible protection and low volatility.

The small molecular structure of Soterra Granite Sealer allows for maximum penetration at coverage rates higher than that of conventional silanes. Depth of penetration is controlled by the application rate (loading rate). This makes Soterra Granite Sealer ideal for protecting granite and other dense, color-sensitive surfaces. Additionally, Soterra Granite Sealer forms an effective chloride screen that reduces surface erosion and corrosion of rebar in reinforced concrete caused by water and water-carried salts.

Soterra Granite Sealer Repellent complies with all known regulations limiting the Volatile Organic Compound (VOC) content of architectural coatings and sealers.

ADVANTAGES

- Normally won't create color change, even on dense surfaces.
- Provides long-lasting protection.
- Does not form a surface film or gloss.
- Treated surfaces “breathe” – does not trap moisture.
- Coverage rate higher than typical water repellents or other stain-resistant impregnators.
- Resists oil and food stains.
- Excellent surface beading when compared with conventional “neat” silanes.
- Complies with all known national, state and district AIM VOC regulations.

Limitations

- Not recommended for asphalt or other nonmasonry materials.
- Surface and air temperatures should not exceed 90°F (32°C) at the time of application. Avoid application on hot, windy days.
- Not recommended for below-grade applications or for use under hydrostatic pressure.
- Limited effectiveness on some limestone and marble. Use Soterra Marble Sealer. Always test.

TYPICAL TECHNICAL DATA

FORM: Clear liquid, slight solvent odor
SPECIFIC GRAVITY: 0.913
ACTIVE CONTENT*: 93%
pH: NA
WT./GAL.: 7.60 lbs.
FLASH POINT: 80°F (27°C) ASTM D 3278
FREEZE POINT: < -22°F (< -30°C)

VOC Information

Complies with all known national, state and district AIM VOC regulations. Available in regulation-exempt small container sizes.

PREPARATION

Protect people, vehicles, property, glass, plants and all nonmasonry from product, residue, splash, fumes and wind drift. Divert and/or protect auto and pedestrian traffic.

Surface Preparation

If possible, install all caulking, patching and joint sealants before applying Soterra Granite Sealer. If impractical, special joint preparation may be required to ensure caulk adhesion. For maximum penetration, clean surfaces thoroughly before application. Cure new concrete thoroughly before applying Soterra Granite Sealer. Surfaces may be damp but should be absorbent for good Soterra Granite Sealer penetration.

Surface and Air Temperatures

Should be 40-90°F (4-32°C) during application.

Specifier's Note – Curing New Concrete

Blanket or water curing is recommended whenever possible. If a chemical curing agent is required, dissipating curing agents are recommended. Avoid overapplication of the curing agent. For best performance, remove all other surface films and contaminants before application of Soterra Granite Sealer.

Equipment

Preferred method of application is with low-pressure (<50 psi), airless spray equipment. Sprayers should be fitted with solvent-resistant hoses and gaskets to avoid discoloration. Solvent-resistant brushes and rollers, or lamb's wool applicators are okay for small-scale

applications.

APPLICATION

Before use, read “Preparation” and “Safety Information.”

ALWAYS TEST each type of surface for suitability and desired results before overall application. Test using the following application instructions. Let test dry thoroughly before inspection.

Dilution

Use in concentrate. **DO NOT DILUTE OR ALTER MATERIAL.** Stir or mix well before use.

Horizontal Application Instructions

1. Apply one coat. Use enough material to keep the surface wet for about a minute before penetrating.
2. Broom out all puddles thoroughly until they completely penetrate the surface.
3. Wipe down excess with a clean, absorbent towel.

Vertical Application Instructions

1. Apply in a single, saturating application. Use enough to thoroughly wet the surface and create a slight rundown below the spray pattern. Apply uniformly. Don't overapply.
2. Brush heavy runs and drips thoroughly into the surface.

Protect treated surfaces from rain, foot and vehicular traffic for at least 4 hours after application.

On extremely porous substrates, two applications of Soterra Granite Sealer will provide superior protection. Apply the second coat within a few minutes after the first coat has penetrated and appears dry.

Soterra Granite Sealer gains its oil resistance properties in 24 hours and its water repellency properties in 72 hours.

NOTE: Some floor and wall systems incorporate asphaltic or other crack suppression membranes. This deeply penetrative protective treatment may penetrate through exposed stone, tile, grout or paver surfaces and react with the membrane to mobilize objectionable staining. **ALWAYS TEST FOR DESIRED RESULTS.**

Clean Up

Clean tools and equipment immediately with mineral spirits or equivalent cleaning solvent. Remove overspray and spills as soon as possible.

Maintenance

Use water to remove spills or stains from surfaces treated with Soterra Granite Sealer as soon as possible.

SAFETY INFORMATION

Danger. Poison. Flammable liquid and vapor. May be fatal or cause blindness if swallowed. Vapor harmful. For use by professional applicators only. Keep out of the reach of children.

Precautions

Cannot be made nonpoisonous. **Contains:** Organosilane, mineral spirits, and methyl alcohol. May affect the brain or nervous system causing dizziness, headache, or nausea. Causes eye, skin and respiratory irritation. **Vapors may ignite explosively.** Keep away from heat, sparks and flame. Do not smoke. Vapors may ignite explosively and may travel along the ground or by ventilation to ignition sources far from the application site. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Methyl alcohol will evolve during curing of this product. Powered ventilation and application equipment must be explosion-proof. Always bond and ground when transferring between containers. Do not cut, grind, weld, or drill on or near this container, even if empty. Empty container retains residues and vapors and may be hazardous.

Use only with adequate ventilation. Do not breathe vapors or mist. Ensure fresh air entry and cross ventilation during application and drying. When applying to exteriors of occupied buildings, make sure all windows, exterior intakes and air conditioning vents are covered and air-handling equipment are shut down during application and remain so until vapors have dissipated. Avoid exposing passersby and building occupants to product, fumes and mists. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, increase ventilation and/or wear an appropriate, properly fitted, NIOSH-approved respirator. Avoid contact with eyes, skin and clothing. Wear splash goggles or a face shield to avoid splash to eyes. Wear protective clothing, gloves and boots as needed to avoid prolonged skin contact. Wash thoroughly after handling.

NOTICE: Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

First Aid

Ingestion: Aspiration Hazard. If swallowed, immediately call a physician, emergency room or poison control center for instruction on safely inducing vomiting. If vomiting occurs, keep head below waist to prevent entry of liquid into lungs.

Eye Contact: Rinse eyes thoroughly for 15 minutes. Get medical assistance if irritation persists.

Skin Contact: Rinse thoroughly. Get medical attention if irritation persists.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

24-hour emergency information: INFOTRAC at 800-535-5053.

Spills: Eliminate sources of ignition. Wear appropriate personal protective equipment and respirator. Use spark proof equipment. Keep product away from soil, sewer systems and surface and ground water. Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Container Disposal: This container is hazardous when empty. Since empty containers retain product residue, all labeled hazard precautions must be observed. Do not cut, puncture or weld on or near this container. Do not

reuse container or remove the label. Drain thoroughly and dispose of in a sanitary landfill (check local restrictions) or send to a properly licensed reconditioner.

Storage and Handling: Store this container in a cool, dry place with adequate ventilation. Keep away from heat and open flames. Keep container tightly sealed when not dispensing. Do not use pressure to empty. Do not atomize during application. Do not alter or dilute the product or use for purposes other than those specified. Read the MSDS and label for additional precautionary information. Always read the product label thoroughly before use.

Shelf Life: 1 year from the date of manufacture in tightly sealed, unopened container.

*Technical Data for reactive, penetrating protective treatments reports Active Content – a calculated value based on raw materials used in the formulation. Some active content is consumed as the treatment polymerizes, reacts and bonds with the substrate.

ASTM D 5095 - Standard Test Method for Determination of the Nonvolatile Content in Silanes, Siloxanes and Silane-Siloxane Blends Used in Masonry Water Repellent Treatments – adds a catalyst to reactive treatments to measure total solids. Total solids for this product is 58%.