

Data Sheet

Sentry Eco Surface Shield



Description

Sentry Eco Surface Shield H2O is a clear, water-based, invisible, breathable sealer designed to protect porous stones, concrete, masonry products, stucco, concrete roofing tiles, and asphalt from the destructive forces of weather and moisture.

Sentry Eco Surface Shield H2O provides a long lasting, breathable UV resistant surface that is repellent to water, mold, airborne dust, and dirt, efflorescence, alkali, and freeze/thaw conditions.

Sentry Eco Surface Shield H2O can be applied in both exterior and interior applications.

Do not use as a pre-sealer prior to the application of any other Sentry Shield product.

Surface

Most hard-porous surfaces such as

- Stone
- Concrete
- Masonry Products
- Slate
- Stucco
- Roofing Tile
- Asphalt

Solution

- Moisture Intrusion
- Stains
- Dirt
- Mold

Characteristics

Color: Milky Liquid

Finish: Invisible

Vehicle Type: Water Base

Flash Point: N/A

VOC: Zero g/L

Weight per Gallon: 8.251 lb./gallon

Breathable

Coverage

Substrate	Sq. Ft. / gal
Broom Finish Concrete*	400-600
Porous Concrete	300-400
Split Face Block	200-250
Pre-Cast Concrete	400-600
Concrete Block	200-250
Brick (Clay)	200-300
Sandstone, Limestone, Slate	250-300
Stucco	250-300
Flagstone, Concrete Pavers	250-300
Unglazed Ceramic/Porcelain	400-600
Travertine, Tumbled Marble	300-400
Limestone	300-400
Honed Granite and Marble	400-600

*Coverage will vary depending on the porosity and texture of the substrate.

Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material using [Sentry Step #1 Cleaner for Unpainted Surfaces](#).

Any existing surfaces that may have retained or wicking oil must be completely free from any further wicking action as this will prevent penetration of our sealer.

IMPORTANT; Remove all existing silicone sealers.

Sentry Eco Surface Shield H2O will not penetrate through existing silicone-based sealers. To determine if the surface is sealed with another sealer, sprinkle water onto surface.

If the water is absorbed and the surface becomes darker, it has not been sealed and you can proceed

applying the Sentry Eco Surface Shield H2O. If the water beads up, there is an existing sealer that must be removed to allow proper penetration.

To remove silicone sealers, use [Sentry Step #1 Cleaner for Unpainted Surfaces](#). Then rinse thoroughly a couple of times with clean water. After flushing with fresh clean water, dry surface with shop vacuum and fans if possible. The surface moisture content must not exceed 13% contact meter method.

Interior Surfaces

Clean surface to remove dirt, dust, grease, oil and loose particles. Remove all surface contamination by washing with [Sentry Step #1 Cleaner for Unpainted Surfaces](#). Then rinse well with fresh water.

Make certain to rinse thoroughly and allow the surface to dry thoroughly. On new concrete allow concrete to cure a minimum of 7 days and have a maximum moisture content not to exceed 13% contact meter method.

Exterior Surfaces

Clean surface to remove all dirt, dust, grease, oil, loose particles, foreign material, coatings, form release agents, moisture curing membranes, mildew, etc., using [Sentry Step #1 Cleaner for Unpainted Surfaces](#). Then rinse well with fresh water.

Make certain to rinse thoroughly and allow the surface to dry thoroughly. New concrete must be cured at least 7 days and have a maximum moisture content not to exceed 13% contact meter method.

On tilt-up and poured-in-place concrete, clean with [Sentry Step #1 Cleaner for Unpainted Surfaces](#) and/or sandblasting may be necessary to remove sealers, and release compounds. Prepared concrete should have a pH of between 7 and 9.

Application Instruction Test Area

Due to the wide variety of substrates, always test Sentry Eco Surface Shield H2O in an inconspicuous location to ensure performance.

There should be very little to no enhancement or change in appearance to the existing surface after it has dried.

Application

Make certain that the surface has been prepared properly and is clean and dry. If applying outdoors, make certain the ambient temperature is between 45°F and 105°F, RH 90% or less, and there is no chance of rain for a minimum of 30 minutes after the estimated time of completion of the sealing processes.

Also make certain there will be no additional morning dew to make the surface damp again before it has had a chance to dry. Do not apply to a surface that will be painted and protect surfaces that may need to be repainted, as it will affect the bond of the new paint.

THIS IS EXTREMELY IMPORTANT. Shake the Sentry Eco Surface Shield H2O container for several minutes to suspend the Nano particles that have settled to the bottom. Make certain to shake and or stir every 15-20 minutes to suspend the Nano particles to ensure proper product performance.

Flood the surface to be sealed with Sentry Eco Surface Shield H2O by pouring onto surface or spraying onto surface with a pump sprayer equipped with a grey fan tip.

Begin to work the sealer into the surface using a 3/8" nap roller. Exerting downward pressure on the roller, force the sealer into the surface pores. Continue to work in by rolling back and forth and up and down until there is no puddling or excess sealer standing on the surface.

Continue applying Sentry Eco Surface Shield H2O onto the surface and working it in with the roller until the surface will not absorb any more sealer. Once again, remove all excess sealer and puddling.

On surfaces that are very rough or irregular and a roller is not practical to apply the sealer, use a pump sprayer with a grey fan tip and spray on as close to the surface as possible, so that the force of the spray gets the sealer as deep into the pores as possible.

Continue this until the surface will not absorb any more sealer. Make certain to remove all excess sealer that is puddling or this will dry into a white haze.

Drying Time

Drying Time (@ 77 F, 50% RH), Temperature and humidity dependent.

Touch: 10 minutes

Through: 30 minutes

Interruption of Work

Upon drying, treated surfaces will have a natural appearance matching the untreated surfaces. It is possible that areas could remain untreated if work is interrupted.

It is advisable to stop application on a corner joint or any other obvious marker, so the applicator can begin where the application had previously ceased.

Clean Up

Clean tools and equipment with water and rinse thoroughly.

Caution

In the event of contact with skin, wash skin thoroughly with soap and water. Always wear safety goggles or splash shield to avoid splashing into your eyes. Do not wear contacts without eye protection.

If sealer gets into your eyes, immediately flush eyes with water for 15 minutes. If eye irritation occurs after rinsing, seek medical attention. If accidentally swallowed, rinse mouth thoroughly with water. In case of discomfort, obtain immediate medical attention.

In enclosed areas make sure to have an observer watching the applicator for any signs of physical distress.

Care & Maintenance

To clean sealed outside surfaces, simply hosing off with a garden hose equipped with a pistol grip sprayer is typically all that is needed.

When additional cleaning is required, use **Sentry Step #3 Safe Clean**. On interior surfaces, a damp mop works well on floors and other surfaces can be wiped clean

with a damp cloth or sponge. **Sentry Step #3 Safe Clean** solution can be used for counters or other eating surfaces.

Do not use high pressure power washers as they will break down the sealer over time. Power washing is generally not necessary after the surface has been sealed but may be used at a setting of 800 PSI or lower to clean rough or irregular surfaces such as split face block.

If you notice water wicking into the surface, especially on high traffic areas, simply follow application instructions and re-apply the sealer. There is no stripping of the Sentry Eco Surface Shield H2O required. Simply re-apply, the sealer will only absorb into the surface where it is worn away.

Warranty: Limited 5 Year

Sentry Molecular Coatings, Inc. guarantees Sentry Eco Surface Shield H2O to be defect free and any material that is proven to be defective will be replaced in a like quantity by the manufacturer with proof of purchase and provided it has been applied according to the instructions on container and data sheet along with other related guidelines posted at SentryMolecularCoatings.com.

Warranty does not cover wear and tear. Sentry Molecular Coatings, Inc. will provide 100% replacement of sealer for the first two (2) years from the date of first purchase at no cost to the purchaser, the replacement cost of Products that Sentry Molecular Coatings, Inc. will pay after 2 years will be prorated for the remaining 3 years up to year 5.

Sentry Molecular Coatings, Inc. replacement cost, described above, which will be calculated by dividing the number of months remaining in the warranty period by the number of months in the original warranty period. This warranty only extends to the owner of the property upon which the product is applied and is nontransferable.

Any warranty claim must be made in writing and sent to Seller with supporting materials and access to the property for inspection and testing as requested by Seller. Seller will thereafter provide replacement product for product found to be defective.

This warranty is given in lieu of all other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The remedy stated herein is an exclusive remedy and Seller shall not be responsible for any other damages, including labor or any incidental, consequential, special or punitive damages, whether based on breach of express or implied warranty, negligence, strict liability or other legal theory.



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