

Data Sheet

Sentry Stone Shield



Description

Sentry Stone Shield is a clear, non-breathable protective quartz coating for calcium-based stones such as Limestone, Marble, Travertine and Onyx as well as man-made conglomerates that are cement based.

Sentry Stone Shield protects stone from etching by providing a long-lasting barrier with superior resistance against moisture intrusion, stains, mold, liquid and food acids. Available in a gloss or satin finish is ideal for use in kitchens, restaurants, bars, tables.

Surface

- Marble
- Tumbled Marble
- Onyx
- Cement Based Materials
- Other Natural Stone

Solution

- Moisture
- Dirt
- Acid Etching from Most Foods and Drinks

Characteristics

Color: Clear to slight Amber to Rose (depending on temp and humidity), always dries clear.

Finish: Gloss or Satin

Vehicle Type: Solvent Base

Flash Point: C Pensky-Martens Closed Cup -9°C (15°F)

VOC: less than 100 g/L

Weight per Gallon: 7.36 lb.

Non-breathable

Spread Rate

Recommended Spread Rate Per Coat:

Wet mils: 4.0-5.0

Dry mils: 2.4-3.0

Limestone & Travertine require 2 coats wet on tack

Coverage

Limestone	250-300*
Marble	300-400
Travertine	250-300*
Tumbled Marble	300-400
Onyx	300-400
Polished Marble	300-400

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

*Requires 2 coats

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](#). Rinse with fresh clean water and dry.

Removal of all existing Silicone Sealers

To determine if the surface is previously sealed or coated, sprinkle water onto the surface. If the water is absorbed and the surface becomes darker, it has not been sealed.

If the water beads up, there is a coating or sealer that must be removed to allow adhesion of Sentry Stone Shield to the substrate. It is crucial to ensure adhesion of the coating.

Remove all surface contamination by washing with [Sentry Step #1 Cleaner for Unpainted Surfaces](#). Rinse with fresh clean water and dry.

Honed Stone Surfaces

On honed surfaces make sure to use Satin version of Sentry Stone Shield to maintain that honed look, it may still be glossier than the natural honed finish. It may also enhance beige limestone or travertine. Always do a test sample.

Exterior Surfaces

It should be noted that on exterior surfaces, especially white, Sentry Stone Shield could very slightly yellow over time.

Application Instruction Test Area

Due to the wide variety of colors and textures of stone and the various methods of application and environments, test Sentry Stone Shield in an inconspicuous location to ensure adhesion and determine that the desired look is achieved.

There will be a slight enhancement or change in appearance from the natural stone, especially on light brown and beige stones.

Application

Once surface had been properly prepared and is clean, dry, and free of any prior silicon based sealers (Sentry Stone Shield will not adhere to silicone), mask off any adjacent surfaces to keep them free of drips or accidental coating.

Sentry Stone Shield is available in two finishes, satin or gloss. The application area must be free of dust and other contaminants that may settle into the finish during application and become part of the surface. Always wipe surface with a tack cloth prior to application to remove any small pieces of dust.

Sentry Stone Shield 2 component product (**REQUIRES PART B CATALYST**) Stir contents of Sentry Stone Shield thoroughly to suspend the Nano particles that have settled to the bottom of the container.

In a separate, clean container large enough to accommodate equal parts Sentry Stone Shield and Catalyst mix 1-part Sentry Stone Shield and 1-part Catalyst and stir thoroughly. **Make certain to re-stir every 15-20 minutes to ensure the Nano particles are suspended to provide proper performance.**

For best results, spray coating with an HVLP sprayer, using a 1.4 tip and approximately 25 PSI. On a separate piece of cardboard first spray a test pattern to achieve an 8" to 10" elongated pattern approximately 1.5" to 2" wide in the middle.

Spray in a cross pattern right to left, then up and down, to ensure that entire surface has been coated. If spraying is not conducive to the location and space, then roll on the coating. Use an ultra-smooth, high density foam roller (available at most major home improvement stores), pour the 1:1 mixture of Sentry Stone Shield and Catalyst into a roller pan. Completely saturate the roller

with the mixture. Apply a liberal coat in a cross pattern; left to right, then up and down as quickly as possible one time only making sure there is always plenty of material in the roller, so no spots are missed.

Do not overwork the surface, simply spread the coating and let it stand to level out as it dries. Desired wet film thickness (WFT) is approximately 4.0-5.0 mils. Over working the coating will ruin the finish.

Over the next 30 minutes, the coating will level further and become smoother. When spraying outdoors, make certain there will be no rain for at least 5 hours after your anticipated completion time, the temperature needs to be between 45F and 105F and 90% RH or less with no morning dew or the possible return of morning dew for at least 5 hours.

If there is high wind, this will affect the quality of the finish, as blowing wind can disrupt the spray pattern from your HVLP. It can also contribute to contamination of the finish from blowing dust. It may be necessary to erect a wind screen to protect the area.

For Limestone, And Travertine

Apply two coats, wet on tack, 10-15 minutes apart. If the second coat cannot be applied within the 10-15 minutes reapplication window.

Let dry 24 hours, then lightly sand with 220 grit sandpaper to abrade the surface so the second coat can bond. Clean the surface and re-apply following the Application Instructions.

Finish

Once Sentry Stone Shield is applied, do not attempt to adjust the finish by sanding to create a more matte finish, as this process will open the surface grain, causing failure of the coating. Dust knobs or sharp peaks can be lightly buffed off with a soft wool polishing pad and polishing compound, (3M Imperial Polishing Compound).

Be very careful not to penetrate the surface. If the surface is accidentally abraded through the coating, re-sand to 220 grit and re-apply Sentry Stone Shield using Application Instructions above.

If after applying the coating you notice defects in the finish that cannot be buffed out, simply wait 24 hours and sand the defects out of the surface with 220 grit or lower to remove the defects. It is not necessary to

completely sand off the Sentry Stone Shield. Only sand down the imperfections until they are no longer visible.

The remaining surface can be sanded to 220 grit if recoating the entire surface is desired. Sentry Stone Shield may also be blended in if damage has occurred to a spot. This is best achieved by an experienced finisher, like paint repair on a car. Wait the full cure time of 7 days after making repairs, avoiding liquids and heavy use. The surface is ready for use on Day 8.

CAUTION: If using spray application method in an enclosed space, make certain to tent off the area being sprayed with plastic tarps to avoid spray dust from traveling and contaminating other surfaces with overspray dust. Tented and enclosed areas should always be positively supplied with fresh air and have ventilated exhaust to outside using fans.

Never spray near any open source of ignition, such as pilot light flames, or anything that may spark, as this may cause ignition and explosion of the fumes and vapors. In enclosed areas, make sure to have an observer watching the applicator for any signs of physical distress.

Warranty: Limited 10 Year

Sentry Molecular Coatings Inc. guarantees Sentry Metal shield to be defect free, any material that is proven to be defective will be replaced in a like quantity by the manufacturer within 10 years of date of purchase with proof of purchase and provided it has been applied according to the instructions on this container and data sheet along with other related guide-lines posted at SentryMolecularCoatings.com.

This warranty only extends to the owner of the property upon which the product is applied and is non-transferable. This warranty does not cover wear and tear. This warranty is for manufactures defects only. 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 100% replacement product for product found to be defective for the first 3 years then the product replacement will be prorated every year until year 10.

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.



Onyx



Protects Stone from Stains



Protect Marble Floors

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Authorized Distributor

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