

Data Sheet

Sentry Graffiti Shield



Description

Sentry Anti-Graffiti Shield is a clear thin protective coating for most signs, smooth concrete, metal, wood, painted surfaces and more. Sentry Anti-Graffiti Shield is designed to provide a thin barrier between the graffiti and the surface, it's applied to.

Sentry Anti-Graffiti Shield is now the surface that you can clean the graffiti from without ever touching the surface underneath. No more damage from graffiti as this long-lasting barrier between the substrate and graffiti, allows the continued removal of graffiti without damage to underlying paint, signage or the substrate itself.

Sentry Anti-Graffiti Shield is a non-sacrificial coating that lasts through hundreds of cleanings.

Surface

- Signs, Including the New Diamond Reflective Highway Signs
- Smooth Concrete

- Metal
- Wood
- Plastic
- Painted Surfaces. Not for Use on HDPP or Smooth HDPE surfaces

Solution

Graffiti damage from:

- Paint
- Permanent Markers
- Stickers

See **Sentry Glass Shield** to protect glass from graffiti.

Characteristics

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

Finish: Gloss only

Vehicle Type: Solvent Base

Flash Point: (C Pensky Martens closed Cup) -9C/15F

VOC: less than 100 g/L -

Weight per Gallon: 7.36 lbs.

Spread Rate

Recommended Spread Rate per coat:

- Wet mils: 0.5-1.0
- Dry mils: 0.1-0.6

Non-breathable

Coverage Surface - Sq. Ft / gal

Coverage:

- 600-1200 sq. ft./gal (non-porous surfaces)
- 200-400 sq. ft./gal (porous surfaces)

Coverage will vary depending on the porosity and texture of the substrate and application process

Surface Preparation

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

Painted or Coated Surfaces, Plastic and Signs

Clean entire surface with [Sentry Step#1 Cleaner for Painted Surfaces](#). Do not use solvents as this will ruin most of this type of surfaces, rinse with fresh water.

Make sure the surface is clean and dry, and then apply Sentry Graffiti Shield directly over the surface with the spray method only as rolling or brushing our solvent based coating may cause the paint to smear from the pressure of the roller or brush moving across the surface.

Unpainted Masonry and Concrete

For all porous masonry and concrete make sure the surface is clean and dry. Use [Sentry Step#1 Cleaner for Unpainted Surfaces](#). Wash off with water.

Once the surface is completely dry - less than 13% moisture - pre-seal the surface with Sentry Quick Seal & Enhance (See Sentry Quick Seal & Enhance Data Sheet for complete application instructions) or any good quality water-based sealer.

Note: we recommend our Quick Seal & Enhance as it dries in less than 5 minutes. This saves on labor and

down time. Other sealers can take up to 3 hours to 2 days to dry before application of our Graffiti Shield.

For existing graffiti on unpainted surfaces use Sentry Paint Remover and rinse with fresh water and allow to dry.

Pre-Application Test Area

Due to the wide variety substrates and the various methods of application and environment always test Sentry Anti-Graffiti Shield in an inconspicuous location to ensure adhesion and performance.

There will be a slight enhancement or change in appearance from the natural in addition to a gloss look.

Never roll or brush on painted surfaces or signs. Only spray.

Application

Sentry Graffiti Shield is best sprayed onto the surface to achieve the best look and proper spread rate, however not all surfaces or locations can be applied by this method. If this is the case; then two different optional methods depending on the configuration of the piece, the location and the desired finish is available.

Sentry Graffiti Shield can also be rolled or brushed on. With all methods of application always mask off any adjacent surfaces to keep them free of drips or accidental coating.

If applying outdoors, make certain the ambient temperature is between 45° F and 105° F, RH 90% or less, and that there is no chance of rain for a minimum of 5 hours after the estimated time of completion of the coating process. Also, make certain there will be no additional morning dew to make the surface damp again before it has dried. For diamond prism ink signs the signs must be sprayed and laid flat or ink will run.

Spraying

Shake and or stir the Sentry Anti-Graffiti Shield contents thoroughly to re-suspend the Nano particles that have settled to the bottom. Typically, you may find up to a ¼" of Nano particles settled on the bottom of the can, these all need to be re-suspended for the coating to perform.

Make certain to re-shake every 15-20 minutes to ensure the Nano particles are re-suspended to ensure proper performance.

When surface preparation is complete, and surface is dry and free of dust begin application using a high volume, low pressure (HVLP) spray gun with a 1.0 size tip and the pressure set at approximately 25 to 30 psi. On a separate piece of cardboard, adjust the spray gun to first spray a test pattern to achieve an 8" elongated pattern approximately 1 1/2" wide in the middle without too much liquid coating as to cause any ponding.

Once this spray pattern is achieved and the desired fluid amount is on the test cardboard you are ready to begin.

Spray the surface in a cross-pattern; left to right, then up and down at a medium pace approximately 8" to 10" off the surface as this material needs to go on thin. This will provide enough coverage and will help prevent voids in the surface. Desired wet film thickness (WFT) is approximately 0.5 to 1.0mils.

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 45° F and 105° F with RH 90% or less, also make certain there will be no return of morning dew before the coating has had an opportunity to dry for 5 hours.

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

To spray small pieces or tight locations you can use a "Preval" sprayer. This is a small disposable sprayer that can spray any liquid and holds approximately 6 oz. and is ideal for touch ups as well. Available in the paint department of major home improvement stores, or major paint store chains.

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.

Tented and enclosed areas should always have a positive supply of fresh air and have ventilated exhaust air 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.

Rolling

Never roll Sentry Anti-Graffiti Shield onto painted signs or surfaces as this may smear the paint.

Shake the contents thoroughly to re-suspend the Nano particles that have settled to the bottom, typically, approximately 1/4" of Nano particles can settle to the bottom of the can. **Make certain to re-shake every 15-20 minutes while using to re-suspend these Nano particles to ensure proper performance of the coating.**

Pour the Sentry Anti-Graffiti Shield into a roller pan and completely saturate the roller with the coating. The coating needs to be applied thin, but you also need to ensure that you have fully covered the surface. For smooth surfaces, use a high density ultra-smooth white foam roller, for rough surfaces, use a 3/8" nap roller available at most major home improvement stores, apply a coat in a cross-pattern; left to right, then up and down as quickly as possible making sure there is always plenty of material on the roller, so no spots are missed.

Desired wet film thickness (WFT) is approximately 0.5 to 1.0 mils.

Do not over work the coating just right left and up and down moving the wet edge over the entire surface as quickly as possible as coating dries fast. Do not apply more than one coat.

Brushing

Never brush Sentry Anti-Graffiti Shield onto painted signs or surfaces as this may smear the paint.

Shake the contents thoroughly to re-suspend the Nano particles that have settled to the bottom, typically, approximately 1/4" of Nano particles can settle to the bottom of the can. **Make certain to re-shake to re-suspend these Nano particles every 15-20 minutes during use to ensure proper performance of the coating.**

The coating needs to be applied thin, but you also need to ensure that you have fully covered the surface Use a high-quality Chinese bristle brush for best finish results.

Apply the coat in a cross-pattern; left to right, then up and down as quickly as possible making sure, there is always plenty of material on the brush, so no spots are missed.

Desired wet film thickness (WFT) is approximately 0.5 to 1.0 mils.

Do not over work the coating just right left and up and down moving the wet edge over the entire surface as quickly as possible as coating dries fast. Do not apply more than one coat.

Dry Time

Drying Time (@ 77 F, 50% RH):

Drying time is temperature, humidity and film thickness dependent.

Touch: 2-3 hours

Through: 3-5 hours

Full Cure: 7 Days

Interruption of Work

Upon drying, treated surfaces can appear like untreated surfaces. It is possible 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 flush equipment with acetone thoroughly immediately after completion of the application. Once product dries in your spray gun, brush or roller it cannot be cleaned by solvents.

Storage

Store in cool dry location. Do not store solvent based products in sun or in sun heated vehicle as overly heated product can turn dark in color and remain tinted when applied.

Caution

Always wear OSHA approved 1910.134 and ANSI Z88 2 respiratory protection. Fresh air and exhaust should be provided in the work area. If inhaled, remove affected person to fresh air.

Call physician immediately if physical difficulties occur. Wear butyl rubber gloves and other skin protection to avoid contact. In the event of contact with skin, wash skin thoroughly with soap and water.

Chemical safety goggles or splash shields are required. Do not wear contacts without eye protection. If you get coating in your eyes, rinse with fresh water for 15 minutes and seek immediate medical attention.

If accidentally swallowed, rinse mouth with fresh water for 15 minutes and seek immediate medical attention. In enclosed areas, make sure to have an observer watching the applicator for any signs of physical distress.

Care & Maintenance

Use [Sentry Step #3 Graffiti Remover](#) to remove the graffiti then rinse with fresh water.

Although Sentry Graffiti Shield is scratch resistant, it is not scratch proof. Do not use abrasive cleansers or abrasive scouring pads. On porous surfaces, such as split face block, spray the [Sentry Step #3 Graffiti Remover](#) onto the surface then it is necessary to use a nylon bristle brush to clean completely into all the pours.

This process may require repeating a couple of times to get into those tough spots. An 800 PSI (low pressure) power washer may also be used.

Avoid using high pressure power washers, as repeated use of this method will eventually break down the coating.

If the Sentry Graffiti Shield is damaged, lightly sand the surface of the coating (not the substrate) with 220 grit sandpaper being careful not to disrupt the substrate. Then re-apply the coating. If vandalized with graffiti prior to completion of the 7-day curing time simply wait to clean until the 8th day.

Warranty Limited 2 Year

Sentry Molecular Coatings, Inc. guarantees Sentry Glass Shield H2O Hydrophilic to be defect free from date of purchase for 2 years. Any material that is proven to be defective will be replaced in a like quantity by the manufacturer with proof of purchase receipt and provided it has been applied according to the instructions on container and data sheet along with other related guidelines posted at SentryMolecularCoatings.com.

This warranty only extends to the owner of the property upon which the product is applied and is non-transferable. Seller will replace product 100% of full value for the first 1 year then prorated for the remaining 1 year.

Warranty does not cover wear and tear only manufactures defects. 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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