

Data Sheet

Sentry Plastic Shield



Description

Sentry Plastic Shield is a very thin molecular clear quartz coating using Nano-sized particles designed to penetrate the surface of plastic or vinyl.

Surface

- Plastic Surfaces
- Plastic Furniture
- Stadium Seats
- Vehicle Interiors
- Vinyl Awnings

Does not work on smooth high-density polyethylene or polypropylene.

Solution

- Reduces Rate of:
 - Oxidation
 - Cracking
 - Discoloring
- Provides A More Durable Easier to Clean Surface
- Protects from:
 - Food and Beverage Stains
 - Graffiti
- Restores the Color from UV Damage

- Provides Long-Lasting Protection From Future UV Damage

Characteristics

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

Finish: Available in Gloss, Satin or Matte

Vehicle Type: Solvent based

Flash Point: C Pinsky-Martens Closed Cup 16.7°C (62.1°F)

VOC: 20 g/l

Weight per Gallon: 7.36 lb./gallon

Non-breathable

Expected Wear

One year under normal conditions.

Coverage

800-1200 sq. ft. per gallon.

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 Painted Surfaces](#).

Rinse thoroughly with fresh water and allow surface to dry. Using Blue Tape, mask off any adjacent areas on other parts you are coating to avoid getting it on surfaces you don't want coated.

If you are applying the coating on the interior of an auto, make sure all windows are down and that you have positive air flow and exhaust as this is a solvent based coating.

Make sure there is no open flame or any source of possible ignition of fumes. Always wear an approved respirator OSHA 1910.134 and ANSI Z88.2. Wear butyl-rubber gloves to avoid skin contact.

Application Instruction Test Area

Due to the wide variety of substrates, always test Sentry Plastic Shield in an inconspicuous location to ensure performance and compatibility/adhesion with the surface.

Application

Make certain 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, 90% RH or less and 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. Stir the container for several minutes to suspend the Nano particles that have settled to the bottom.

Make certain to stir every 15-20 minutes 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 1.0-1.3 size tip and the pressure set at approximately 25 to 30 psi.

On a separate piece of cardboard, first spray a test pattern to achieve an 8"-10" elongated pattern

approximately 1 ½" wide in the middle and fluid enough to cover but not puddle.

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 windscreen to protect the area. Once the spray pattern is achieved on the test cardboard, spray one coat in a cross-pattern; left to right, then up and down. This will provide enough coverage and will help prevent holes in coverage.

Desired wet film thickness (WFT) is approximately 1.3 to 2.0 mils. 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., which is ideal for touch ups as well. Available in the paint department of major home improvement stores, or major paint store chains.

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 over spray dust.

Tented and enclosed areas always require to be positively supplied with fresh air and have ventilated exhaust to outside using fans. Never spray near any open flame or any possible source of ignition such as pilot light, 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.



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