

## Data Sheet

# Sentry Adhesion Promoter/Tie Coat



### Description

Sentry Adhesion Promoter is very fast drying, extremely thin molecular-based tie coat for virtually every surface.

Sentry Adhesion Promoter is corrosion, peel and flake resistant, and designed to promote adhesion of paints, urethanes, varnishes, and most liquid-based coatings through molecular cross linking of the coating to the substrate it's being applied to.

No more need to rely on adhering to one another through mechanical abrasion.

**NO MORE SANDING BETWEEN COATS REQUIRED!**

### Surface

- Plastic Car Bumpers
- Rubber
- Glass
- Most Plastics
- Hardwood Floors
- Painted Metal
- Stainless Steel
- Aluminum

- Galvanized Steel
  - Powder Coating
  - Fiberglass
- and more ...

### Solution

Sentry Adhesion Promoter eliminates the need to sand or mechanically abrade substrates or coatings before applying any other type of coating over another.

For example, Sentry Adhesion Promoter allows coating polyurethanes over polyurethanes without the need to sand between coats.

### Characteristics

- **Color:** Clear to slight Amber to Rose (depending on temp and humidity).
  - Always dries clear.
- **Finish:** Satin
- **Vehicle Type:** Solvent Base
- **Flash Point:** C Pensky-Martens Closed Cup - 25°C, (77°F)
- **VOC:** less than 20 g/liter
- **Weight per Gallon:** 7.36 lb./gallon

Non-breathable

## Spread Rate

### Recommended Spread Rate Per Coat:

- **Wet mils:** 1.0-1.5
- **Dry mils:** 0.4-0.9

## Coverage

**Coverage:** 900-1500 sq. ft. /gal (approximate), coverage will vary depending on the porosity and texture of the substrate or application method.

## 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 with fresh water and dry completely.

## Application Instruction Test Area

Due to the wide variety of coatings, substrates and the various methods of application and environments always test Sentry Adhesion Promoter in an inconspicuous location to ensure adhesion.

Sentry Adhesion Promoter will NOT bond to HDPP.

## Application

Sentry Adhesion Promoter as with most finishes is best sprayed on to achieve optimum smooth finish. With all methods of application, always mask off any adjacent surfaces to keep them free of drips or accidental coating. Sentry Adhesion Promoter dries extremely fast, so make sure to put lid back on can immediately after removing desired amount.

Sentry Adhesion Promoter should be sprayed. However, if the project configuration and location doesn't allow for spraying, you can, as an alternative, also brush using a fine Chinese bristle brush or roll on with a high density ultra-smooth foam roller. This type of alternate application will not yield the same spread coverage and will not typically give you the optimum smooth finish as spraying would.

If applying outdoors, make certain the ambient temperature is between 45°F and 105°F, and RH is under 90%. Also make certain there will be no additional return of morning dew to make the surface damp again before it has had a chance to dry for at least 5 hours.

Sentry Adhesion Promoter is a very fast drying tie coat. It requires the coating you're applying over the Sentry Adhesion Promoter to be applied within one minute and no longer than 10 minutes.

If you cannot apply within this time, you must re-apply the Sentry Adhesion Promoter, once Tie coat is too dry, the coating you are applying over it will not bond. Staging is very important, so when you are ready to apply the Sentry Adhesion Promoter, then immediately be able to follow up with your final coat.

On large applications, it's best to have two applicators, one applying the Sentry Adhesion Promoter and one following up behind applying whatever the final coat is.

## Spraying

Stir the contents thoroughly to suspend the Nano particles. 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 psi.

On a separate piece of cardboard, first spray a test pattern to achieve an 8"-10" elongated pattern approximately 1 1/2" 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 coating 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. 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.

Apply your final coat over the Sentry Adhesion Promoter within 10 minutes or the final coat will not bond after

that time. If application window passes, simply reapply Sentry Adhesion Promoter over the existing Sentry Adhesion Promoter and apply final finish.

**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 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.

## Rolling

Make certain the surface is clean per preparation instructions. Stir the contents thoroughly to suspend the Nano particles that have settled to the bottom. Using a white, ultra-smooth high-density foam roller (available at most major home improvement stores), pour the Sentry Adhesion Promoter into a roller pan and completely saturate the roller.

Apply in a cross-pattern; left to right, then up and down as quickly as possible as the coating dries fast. It also gives a better-looking finish if you avoid down pressure on the roller.

Apply your final coat over the Sentry Adhesion Promoter within 10 minutes, or the final coat will not bond after that time. If application window passes, simply reapply Tie Coat over the existing Sentry Adhesion Promoter and apply final finish.

## Brushing

Make certain the surface is clean per preparation instructions. Stir the contents thoroughly to suspend the Nano particles that have settled to the bottom.

Select the appropriate size brush width based on the surface area being coated. Using only a good quality China bristle brush, apply Sentry Adhesion Promoter in a cross-pattern; up and down, then left and right.

To obtain the best results, do not overwork the coating, as it dries quickly. Do not bear down with the brush. Use light strokes, using the tip of the brush to smooth

out the coating. Desired wet film thickness (WFT) is approximately 1.0 to 1.5mils.

Apply your final coat over the Sentry Adhesion Promoter within 10 minutes or the final coat will not bond after that time. If application window passes, simply reapply Tie Coat over the existing Sentry Adhesion Promoter and apply final finish.

## 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](http://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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