



As with all powder coatings, this product may vary between lot numbers, KV settings, mil thickness, oven temperatures, application equipment and technique. We recommend a clear top coat to maintain the appearance and prevent oxidation on metallic powder coatings. Always coat a sample prior to any production, to determine if this product meets all your requirements.

Product Number and Name- PSS 10300 Super Chrome II

Suggested Cure Time and Temperature- 15 Minutes @ 375°F

**As always, the cure time starts when the substrate reaches temperature.**

#### DESCRIPTION:

With a new polyester formulation, improved performance, and a new look, Super Chrome II is taking the lead as the go-to powder coat for achieving the perfect chrome look. Super Chrome II is a shiny, reflective silver that replicates the look of real chrome plating better than ever before, making it the industry's ideal base coat for candy and transparent powder top coats.

#### SPECIAL INSTRUCTIONS/ NOTES :

- To maintain a chrome like appearance, a topcoat of Clear Vision (PPS 2974) is required. Alternatively, any Prismatic transparent, candy, or various gloss clears, may be used depending on your desired finish.
- Super Chrome II should be fully cured prior to top coat being applied for optimal results the base coat should be applied at a thickness of 3 mils. Top coat should be applied after the part has completely cooled.

**Note: Each additional coat of powder coating will act as an insulator, which will require additional time for the substrate to reach temperature. Extend cure times as needed.**

#### POWDER PROPERTIES:

Thermosetting Powder Coating

Powder type: TGIC Polyester

Specific Gravity: 1.21 ± .5

Storage: Store in cool dry environment 70° F

Shelf Life: 6-8 Months

#### APPLICATION:

Electrostatic spray to cold substrate

Recommended Mil Thickness: 3 Mil

Equipment information:

Fluidized Hopper Recommended

Not Recommended for tribo application

Pretreatment and proper prep to substrate prior to powder coating is a critical factor in developing maximum corrosion resistance and maximizing the lifetime of the product.

Testing parameters are as follows :

- **UV and Weather Resistance** The test panel undergoes several cycles of UV exposure, followed by condensation exposure. All cycles are repeated continually until a  $\Delta E > 5$  has occurred.
- **Gloss Units and levels** are measured at a 60° angle
- **Adhesion** is measured on a scale of 0B, 1B, 2B, 3B, 4B, 5B, with 5B being the highest achievable rating.
- **Flexibility or Conical Mandrel Bend:** “100% Resistance” is the highest achievable rating and indicates that the coating did not crack or spall.
- **Impact Performance Direct/ Indirect** is measured on a scale of 0 inch-lbs. to 160 inch-lbs., with 160 inch-lbs. being the highest achievable rating.
- **Salt Spray** Corrosion testing is used to evaluate the relative corrosion resistance of coated panels exposed to a salt spray or fog at an elevated temperature. Coated panels are placed in an enclosed salt spray chamber at a 15-30 degree angle and subjected to a continuous indirect spray of a neutral (pH 6.57.2) salt water solution. The chamber/cabinet is kept at an operating temperature of 95°F and fogging a 5% salt solution at the required 1.0-2.0mL/hr.

### **Testing Results for PSS 10300 Super Chrome II**

Type of Substrate: Mild steel Q panel/ Aluminum Q panel

Cure Method : - 15 Minutes @ 375°F

Average Mil Thickness of panels : 2.5-3.5 Mils

KV settings- 50

- |   |                            |
|---|----------------------------|
| • <b>UV and Weather Resistance</b> (with PPS 2974 Clear Vision) | <b>Excellent</b>           |
| • <b>Gloss Unit</b>   | <b>85+</b>                 |
| • <b>Gloss Level</b>  | <b>High Gloss</b>          |
| • <b>Adhesion</b>   | <b>4B Average Adhesion</b> |
| • <b>Impact Performance Direct</b>                              | <b>40 Inch-pounds</b>      |
| • <b>Impact Performance Indirect</b>                            | <b>40 Inch-pounds</b>      |
| • <b>Pencil Hardness</b>  | <b>2H-H</b>                |

#### **PLEASE NOTE**

Not all powders are recommended for exterior use, it is the buyer’s responsibility to ensure they are purchasing a product that is best suited for the intended application. Certain pigment types, such as those found in the Illusion Series and Transparent powders do not have the same level of UV resistance as those found in Solid Tone finish types.

Exterior tops coats applied to interior finishes may prolong the fading process but DOES NOT ensure a long lasting exterior finish. Please conduct your own testing to ensure the products you choose meet your requirements.

Applicable for product manufactured after 9/24/2020

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The information contained in this bulletin we believe to be correct to the best of our knowledge and testing. The recommendations and suggestions herein are made without guarantee or representation as to results. We recommend that you make adequate tests in your laboratory or plant to determine if this product meets all your requirements.