

## **ENVIROCRON®** Powder Coat

Polyester HAA PCSP93102 - Silver Vein

# **POWDER COATING**

# **Technical Data Sheet**

### **Highlights**

PPG's EnviracryI™ and Envirocron™ powder coatings are aesthetically pleasing, produce a durable uniform finish and can be custom formulated with finishes from high gloss to low gloss, and in a variety of textures.

PPG's "World Class" Polyester
Powder Coatings provide a combination
of good physical and chemical
resistance properties. This extensive
line of Polyester Powders is
manufactured to meet the increasing
requirement demands of the
automotive and industrial markets.
These sophisticated Polyesters are the
solution to your smoothness, low-bake,
durability and physical property
requirements. An unsurpassed
application development program
enables consistently friendly use on a
variety of substrates.

- Available in a wide range of colors and glosses
- Good chemical resistance

### **TEST CONDITIONS**

| Property              | Test method       | Value                   |
|-----------------------|-------------------|-------------------------|
| Substrate             |                   | Pretreated steel panels |
| Recommended Thickness | ASTM D 7091       | 2.0 - 4.0 mils          |
| Curing Conditions     | Metal Temperature | 15 min @ 375 °F         |

For maximum retention of product appearance with exposure to salt spray, humidity, and outdoor weathering, top coating with a durable clear is required.

### **PRODUCT PROPERTIES**

| Property             | Test method       | Value  |
|----------------------|-------------------|--|
| Appearance           | Visual Inspection | Hammertone                                     |
| Gloss 60°            | Visual Inspection | Visually high                                  |
| Adhesion             | ASTM D 3359       | 100% (5B Pass)                                 |
| Hardness             | ASTM D 3363       | H - 2H Pencil (Eagle)                          |
| Impact - Direct      | ASTM D 2794       | 80 in-lbs                                      |
| Conical Mandrel      | ASTM D 522        | 1/8" Mandrel - No cracking                     |
| Salt spray           | ASTM B 117        | 1000 hrs<br><1/8" scribe creep<br>No blisters  |
| Humidity             | ASTM D 1735       | 1000 hrs<br><1/16" scribe creep<br>No blisters |
| Specific gravity     | Calculated        | 1.35 ± .05                                     |
| Theoretical coverage | Calculated        | 142 ft²/lbs at 1.0 mil<br>29.2 m²/kg at 25 μm  |



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### CURING WINDOW\* (object temperature)

See Cure Curve PCS-001

30 min @ 325 °F (163 °C) 15 min @ 350 °F (177 °C) 5 min @ 400 °F (204 °C)

\*Temperature and time to be adjusted to accomplish proper curing of coating. This can be achieved using infrared, convection, or combination ovens.

### **STORAGE STABILITY**

24 months at 80 °F maximum

Materials need to be stored in sealed plastic bags under dry and cool conditions. Do not expose to sunlight.

PPG recommends that all material be used in FIFO order (first in - first out). Materials that exceed the recommended shelf life should be tested prior to use.

### SUBSTRATE PREPARATION

Surface preparation should be chosen according to the type of substrate and required performance.

The coater should test the suitability of the surface preparation before the application using appropriate test methods.

### APPLICATION RECOMMENDATIONS

**Electrostatic Spray** 

Coating can be applied with automatic and manual devices.

Substrate should be correctly cleaned before use.

Do not mix this product with other powder coatings.

Color and finish influenced by film thickness: a good control of the film thickness will help the consistency of the aspect.

#### **HEALTH AND SAFETY**

For comprehensive Health, Safety, and Environmental advice, please refer to the relevant Safety Data Sheets, and information printed on the product label.

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