

## **ENVIROCRON®** Powder Coat

Polyester Urethane PCU90198 - Black

# **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
Urethane Powder Coatings provide a
combination of good physical and
chemical resistance properties. This
extensive line of Polyester Urethane
Powders is manufactured to meet the
increasing requirement demands of the
automotive and industrial markets.
These sophisticated Polyester
Urethanes 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
- Exterior durability
- · Good chemical resistance

### **TEST CONDITIONS**

Property	Test method	Value
Substrate		Pretreated steel panels
Recommended Thickness	ASTM D 7091	2.0 - 3.0 mils
Curing Conditions	Metal Temperature	10 min @ 400 °F

### PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Smooth
Gloss 60°	ASTM D 523	4.0 - 12
Adhesion	ASTM D 3359	100% (5B Pass)
Hardness	ASTM D 3363	2H Pencil
Impact - Direct	ASTM D 2794	120 in-lbs
Impact - Reverse	ASTM D 2794	120 in-lbs
Conical Mandrel	ASTM D 522	1/4" Mandrel - No cracking
Salt spray	ASTM B 117	1000 hrs <1/8" scribe creep No blisters
Humidity	ASTM D 1735	1000 hrs <1/16" scribe creep No blisters
Specific gravity	Calculated	1.53 ± .05
Theoretical coverage	Calculated	126 ft²/lbs at 1.0 mil 25.7 m²/kg at 25 µm



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### CURING WINDOW\* (object temperature)

See Cure Curve PCU-001

30 min @ 350 °F (177 °C)

15 min @ 375 °F (191 °C)

10 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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