# ENVIROCRON® Powder Coat

## Polyester Acrylic Ultra Durable

## PCSP90101 - Flat Black

**POWDER COATING** **Technical Data Sheet**

## Highlights

PPG's Enviracryl™ and Envirocron® powder coatings are aesthetically pleasing, produce a durable uniform matte finish and can be custom formulated in a variety of surface textures.

PPG's "World Class" Ultradurable Polyester Acrylic Powder Coatings provide excellent durability and performance properties. This extensive line of Ultradurable Polyester Acrylic Powders is manufactured to meet the increasing quality requirements of the automotive, industrial and commercial markets. These sophisticated ultradurable polyester acrylics are the solution to your smoothness, durability and physical property requirements. An unsurpassed application development program enables consistently friendly use on a variety of substrates.

## TEST CONDITIONS

| Property | Test method | Value |
|---|---|---|
| Substrate | | Pretreated steel panels |
| Recommended Thickness | ASTM D 7091 | 1.5 - 3.5 mils |
| Curing Conditions | Metal Temperature | 15 min @ 375 °F |

## PRODUCT PROPERTIES

| Property | Test method | Value |
|---|---|---|
| Appearance | Visual Inspection | Smooth |
| Gloss 60° | ASTM D 523 | 2.0 Maximum |
| Adhesion | ASTM D 3359 | 100% (5B Pass) |
| Hardness | ASTM D 3363 | H - 2H Pencil (Eagle) |
| Impact - Direct | ASTM D 2794 | 80 in-lbs |
| Impact - Reverse | ASTM D 2794 | 80 in-lbs |
| Conical Mandrel | ASTM D 522 | 1/8" Mandrel - No cracking |
| Specific gravity | Calculated | 1.73 ± .05 |
| Theoretical coverage | Calculated | 111 ft²/lbs at 1.0 mil<br>22.8 m²/kg at 25 µm |

## 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

6 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.

## 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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