



POWDER COATING

Technical Data Sheet

Highlights

PPG’s Enviracryl™ 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 appliance 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.

- Exterior durability
- Good chemical resistance
- Thin film capabilities



PRODUCT APPROVALS

Specifically formulated to meet the requirements of Ford WSS-M2P177-C1 when properly clearcoated.

PRODUCT CHARACTERISTICS

Bonded metallic coating

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

For maximum retention of product appearance with exposure to salt spray, humidity, and outdoor weathering, top coating with PCT10107 is required.

PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Smooth
Gloss 60°	ASTM D 523	200 - 225
Adhesion	ASTM D 3359	100% (5B Pass)
Hardness	ASTM D 3363	H - 2H Pencil (Eagle)
Impact - Direct	ASTM D 2794	160 in-lbs
Impact - Reverse	ASTM D 2794	160 in-lbs
Conical Mandrel	ASTM D 522	1/8" Mandrel - No cracking
Chemical Resistance		
Acetone	ASTM D 1540	10 Double Rubs - No Effect 20 Double Rubs - Slight
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	1.24 ± .05
Theoretical coverage	Calculated	155 ft²/lbs at 1.0 mil 31.8 m²/kg at 25 µm



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CURING WINDOW* (object temperature)

See Cure Curve PCT-001

- 20 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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