

ENVIROCRON® Powder Coat

Polyester TGIC PCTA93113 - Black Metallic Polyester

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 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.

- 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	2.5 - 3.5 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 a durable clear is recommended.

PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Smooth metallic
Gloss 60°	ASTM D 523	10 - 15
Adhesion	ASTM D 3359	100% (5B Pass)
Hardness	ASTM D 3363	2H Pencil (Eagle)
Impact - Direct	ASTM D 2794	100 in-lbs
Conical Mandrel	ASTM D 522	1/8" 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	1.55 ± .05
Theoretical coverage	Calculated	124 ft²/lbs at 1.0 mil 25.4 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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