



ENVIROCRON® Powder Coat

Polyester Acrylic Ultra Durable

PCAT25138 - Mapes Bronze

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.



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

PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Mica
Gloss 60°	ASTM D 523	8.0 - 20
Adhesion	ASTM D 3359	100% (5B Pass)
Hardness	ASTM D 3363	2H Pencil (Eagle)
Impact - Direct	ASTM D 2794	40 in-lbs - No flaking
Impact - Reverse	ASTM D 2794	40 in-lbs - No flaking
Conical Mandrel	ASTM D 522	1/2" Mandrel - No flaking
Salt spray	ASTM B 117	1000 hrs
Humidity	ASTM D 4585 @ 38° C	100 °F, 100% RH - 1000+ hrs
Specific gravity	Calculated	1.44 ± .05
Theoretical coverage	Calculated	134 ft²/lbs at 1.0 mil 27.4 m²/kg at 25 µm



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CURING WINDOW* (object temperature)

See Cure Curve PCA-001

- 30 min @ 350 °F (177 °C)
- 20 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

6 months at 77 °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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