

ENVIROCRON® Powder Coat

Polyester Urethane PCU90162 - 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.

- Exterior durability
- · Good chemical resistance
- Thin film capabilities

PRODUCT APPROVALS

Specifically formulated to meet the requirements of Ford ESB-M70J5-A and Ford WSS-M2P177-A1-5.

PRODUCT CHARACTERISTICS

Specially formulated to apply over P590/534 and P640 electrooat

TEST CONDITIONS

Property	Test method	Value
Substrate		Pretreated steel panels
Recommended Thickness	ASTM D 7091	1.5 - 2.5 mils
Curing Conditions	Metal Temperature	20 min @ 375 °F

PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Smooth
Gloss 60°	ASTM D 523	27 - 33
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
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	1.5 ± .05
Theoretical coverage	Calculated	128 ft²/lbs at 1.0 mil 26.3 m²/kg at 25 µm



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CURING WINDOW* (object temperature)

See Cure Curve PCU-009

30-50 min @ 350 °F (177 °C) 17-30 min @ 360 °F (182 °C) 12-23 min @ 375 °F (191 °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 70 °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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