

## **ENVIROCRON®** Powder Coat

**Epoxy** 

PCMT70149 - High Transfer Zinc Primer

# **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" Epoxy Powder
Coatings provide a combination of good
physical and chemical resistance
properties. This extensive line of Epoxy
Powders is manufactured to meet the
increasing requirement demands of the
automotive and industrial markets.
These sophisticated Epoxies 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
- Excellent edge and face corrosion properties
- · Good chemical resistance
- · Low cure capabilities

#### PRODUCT CHARACTERISTICS

Designed to help with acceptance of electrostatically applied topcoat. Up to 70% better theoretical coverage than traditional zinc rich primers

#### **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 @ 300 °F

<sup>\*7000</sup> hours Salt Spray over 2-3 mils blasted HRS panels. 2000 hours Salt Spray over iron phosphate smooth steel.

#### **PRODUCT PROPERTIES**

Property	Test method	Value
Appearance	Visual Inspection	Smooth
Gloss 60°	ASTM D 523	60 Minimum
Adhesion	ASTM D 3359	100% (5B Pass)
Hardness	ASTM D 3363	2H Pencil (Eagle)
Impact - Direct	ASTM D 2794	160 in-lbs - No flaking
Conical Mandrel	ASTM D 522	1/8" Mandrel - No flaking
Salt spray	ASTM B 117	2000 hrs
Humidity	ASTM D 4585 @ 38° C	100 °F, 100% RH - 1000+ hrs
Specific gravity	Calculated	2 ± .05
Theoretical coverage	Calculated	96 ft²/lbs at 1.0 mil
		19.7 m²/kg at 25 μm



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### CURING WINDOW\* (object temperature)

See Cure Curve PCM-010

20 min @ 275 °F (135 °C) 10 min @ 300 °F (149 °C) 5 min @ 350 °F (177 °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

12 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.

For steel with mill scale, chemically clean or abrasive blast. Chemically clean using an acid descale stage after alkaline cleaning and rinsing before pretreatment. The acid choice would depend on the severity of the scale to be removed. Time and temperature would also depend on the acid choice and the scale to be removed. Abrasive blast to ISO- Sa2½ or minimum SSPC SP-6, power tool clean to ISO-St3 (SSPC SP-3), or hand tool clean to ISO-St2 (SSPC SP-2).

For cold rolled steel, a suitable multi-stage chemical conversion is needed.

### **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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