



ENVIROCRON® Extreme Protection Edge Plus Powder Coat

Polyester TGIC Ultra Durable
PCT79201 - HE RAL 7035 LIGHT GRAY

POWDER COATING

Technical Data Sheet

Highlights

PPG Envirocron® Extreme Protection Edge Plus powder coatings provide extreme corrosion protection in one coat. This unique technology is specially formulated to cover sharp edges created during metal fabrication, offering superior corrosion protection over standard one-coat and two-coat powder systems. This one-coat edge solution translates to significant cost savings in material, labor, utilities and time. In addition to long-term performance, PPG Envirocron™ Extreme Protection Edge Plus powder coatings offer outstanding transfer efficiency and ease of application.

PPG Envirocron™ Extreme Protection Edge Plus powder coatings are a new addition to PPG’s world-class polyester powder coatings, providing a combination of superior physical and chemical resistant properties combined with excellent outdoor weathering properties. The PPG Envirocron™ line of polyester powder coatings is manufactured to meet the increasing requirement demands of the industrial market. An unsurpassed powder application development program ensures that all PPG powders are user friendly and consistent over 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 - 4.0 mils
Curing Conditions	Metal Temperature	10 min @ 400 °F

PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Smooth
Gloss 60°	ASTM D 523	85 - 100
Adhesion	ASTM D 3359	100% (5B Pass)
Hardness	ASTM D 3363	2H Pencil
Impact - Direct	ASTM D 2794	40 in-lbs
Impact - Reverse	ASTM D 2794	10 in-lbs
Conical Mandrel	ASTM D 522	1/8" Mandrel
Salt spray	ASTM B 117	1000 hrs <1/8" scribe creep No blisters
Humidity	ASTM D 4585 @ 38° C	100 hrs <1/16" scribe creep No blisters
Specific gravity	Calculated	1.63 ± .05
Theoretical coverage	Calculated	118 ft²/lbs at 1.0 mil 24.2 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 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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