ENVIROCRON® Extreme Protection EDGE Powder Coat

Polyester TGIC Ultra Durable

PCT69143 - HE SALFORD RED

POWDER COATING **Technical Data Sheet**

Highlights

PPG Envirocron® Extreme Protection edge 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 powder coatings offer outstanding transfer efficiency and ease of application.

PPG Envirocron™ Extreme Protection edge 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 - 3.5 mils
Curing Conditions	Metal Temperature	10 min @ 400 °F

PRODUCT PROPERTIES

Property	Test method	Value
Appearance	Visual Inspection	Smooth
Gloss 20°	ASTM D 523	80 - 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	20 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	1.28 ± .05
Theoretical coverage	Calculated	150 ft²/lbs at 1.0 mil 30.8 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
Voltages may need to be lowered to limit back ionization and realize the full benefits of this coating. Please see the Field Application Guideline for more details.
Suggested parameters: Kv 35 – 65 – Micro amp (µa) 5 – 20
Distance: 8 inches – 12 inches
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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