

# POWERCRON® 840

## HIGHLIGHTS

**POWERCRON 840** is the newest family of PPG's high-performance acrylic electrocoat, offering excellent corrosion resistance and UV durability. Please consult your PPG representative for advice on the best product for your application.

The advantages include:

- Offers corrosion and UV resistance in one package.
- Corrosion resistance in excess of 1,000 hours.
- Weatherometer in excess of 1,200 hours.
- The ability to replace two-coat operations with a similarly performing one-coat process.
- Good throwpower for products with deep recesses or when dense line loads are common.
- Good flexibility.
- Low VOC.
- HAPs-Free.
- Specific formulations can be designed to favor certain performance characteristics.

## TECHNICAL PROPERTIES

Property	Test Method	Performance
Color	---	Any Color
Film Thickness	---	0.6 - 1.5 MILS (15 - 37 microns)
Gloss - 60 Degree	ASTM D523	20 - 87
Gloss - 20 Degree	ASTM D523	20 - 74
Pencil Hardness	ASTM D3363	3H Minimum
Crosshatch Adhesion	ASTM D3359	5B (90 - 100%)
Impact Resistance - Direct	ASTM D2794	40 in-lb Minimum (46 cm-kg Minimum)
Impact Resistance - Indirect	ASTM D2794	20 in-lb Minimum (23 cm-kg Minimum)
Humidity	ASTM D1735	500 Hours Minimum
Water Soak	ASTM D870	250 Hours Minimum
Chemical Resistance, Gasoline, Diesel, Motor Oil, Anti-Freeze and Gasoline	4-Hour Spot Test	Pass: no discoloration or deformation of coating.

Film properties based on iron phosphate pretreatment

Property	Substrate / Pretreatment	Salt Spray* 500 Hours	Salt Spray* 1000 Hours	20 Cycle** Scab
Corrosion Resistance	CRS/Zinc Phos/Non-Chrome	0 - 3 mm	3 - 6 mm	TBD
	CRS/Iron Phos/Non-Chrome	0 - 3 mm	3 - 6 mm	TBD

(Average Total Scribe Creep), \* Salt Spray - ASTM B117

\*\* Cycle Scab - GM9511P, Cold Rolled Steel Lab Panels

Property	Product	Percent Gloss Retention* (60° meter)			
		300 Hours	600 Hours	900 Hours	1200 Hours
Weatherometer Durability	POWERCRON 840	90 - 100 %	90 - 100 %	85 - 95 %	80 - 90 %

Method - SAE-J1960 with Boro Boro filters

## COMMERCIAL USES/APPROVAL

- Agricultural Implements
- Radiators
- Primer under Powder/Liquid
- Switchgear
- Automotive, Truck and Motorcycle Accessories
- Wheels
- Windshield Wipers

## APPLICATION DATA

**Bake:** 20 minutes at 350°F (177°C) metal temperature  
**VOC:** 1.6 - 2.1 lbs per gallon minus water (as supplied)  
**HAPs:** None  
**Heavy Metals:** None