



## TECHNICAL BULLETIN

### Highlights

POWERCRON 590-534 is PPG's seventh generation cationic epoxy technology. Its advantages include:

- State-of-the-art corrosion resistance without the use of heavy metals.
  - No lead, chrome or zinc
  - Excellent performance with non-chrome sealers
- One-Component feed system.
  - Improved quality and consistency
  - Easier to use
  - Reduced lab testing
  - Simplified material handling
- VOC less than 0.5 lbs/gal.
  - Very low solvent content
  - No solvent additions
  - Non-HAP coating
  - Low smoke/low odor formulation
  - Reduced oven fouling
- Lower BOD/COD in wastewater.
  - Minimize water treatment
- Broad commercial use for high-performance applications.
  - Automotive parts
  - Electrical equipment
  - Marine engines
  - Fasteners
- Approved by Major OEMs.
  - GM, Ford, Chrysler

### Technical Properties

Property	Test Method	Performance
Color	---	Black
Film Thickness	---	0.5 - 1.5 Mils
Gloss - 60 Degree	ASTM D523	65 – 85
Pencil Hardness	ASTM D3363	2H Minimum
Direct Impact	ASTM D2794	120 in-lb Minimum
Reverse Impact	ASTM D2794	100 in-lb Minimum
Crosshatch Adhesion	ASTM D3359	4B – 5B
Humidity	ASTM D1735	1000 Hours Minimum
Water Immersion	ASTM D870	250 Hours Minimum
Gravelometer	GM9508P	6 Minimum
Throwpower	GM9535P	12 – 15 inches

Cold Rolled Steel Lab Panels, Zinc Phosphate Pretreatment.  
0.6 mils Average Film Thickness, Cure 20 Minutes @ 375°F

Property	Substrate / Pretreatment	Salt Spray* 1000 Hours	20 Cycle** Scab
Corrosion Resistance	CRS/Zinc Phos/Non-Chrome	1 – 2 mm	1 – 2 mm

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

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

Cure 20 Minutes @ 375°F

### Commercial Uses

- Agricultural & Construction
- Computer Parts
- Compressors
- Fasteners
- Generators
- Heavy Duty Trucks
- Marine Engines
- Switchgear
- Transformers

### Application Data

**Standard Bake:** 20 Minutes at 375°F Metal Temperature  
**VOC:** 0.3 – 0.5 lbs. per gallon minus water (as supplied)  
**HAPs:** None  
**Heavy Metals:** None

**Note:** Cationic epoxy technologies are not color stable.



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