



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	ASTM D7091	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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