



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.



PPG Industries
151 Colfax Street
Springdale, PA 15144
1-800-PPG-ECOAT
www.ppgcoat.com
ecoatinfo@ppg.com

The technical data presented in this bulletin is based upon information believed to be currently accurate. However, no guarantees of accuracy, comprehensiveness, or performance are given or implied. Continuous improvements in coatings technology may cause future technical data to vary from what is in the bulletin. Contact your PPG representative for the most up-to-date information.