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

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>---</td>
<td>Black</td>
</tr>
<tr>
<td>Film Thickness</td>
<td>ASTM D7091</td>
<td>0.5 - 1.5 Mils</td>
</tr>
<tr>
<td>Gloss - 60 Degree</td>
<td>ASTM D523</td>
<td>65 – 85</td>
</tr>
<tr>
<td>Pencil Hardness</td>
<td>ASTM D3363</td>
<td>2H Minimum</td>
</tr>
<tr>
<td>Direct Impact</td>
<td>ASTM D2794</td>
<td>120 in-lb Minimum</td>
</tr>
<tr>
<td>Reverse Impact</td>
<td>ASTM D2794</td>
<td>100 in-lb Minimum</td>
</tr>
<tr>
<td>Crosshatch Adhesion</td>
<td>ASTM D3359</td>
<td>4B – 5B</td>
</tr>
<tr>
<td>Humidity</td>
<td>ASTM D1735</td>
<td>1000 Hours Minimum</td>
</tr>
<tr>
<td>Water Immersion</td>
<td>ASTM D870</td>
<td>250 Hours Minimum</td>
</tr>
<tr>
<td>Gravelometer</td>
<td>GM9508P</td>
<td>6 Minimum</td>
</tr>
<tr>
<td>Throwpower</td>
<td>GM9535P</td>
<td>12 – 15 inches</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Substrate / Pretreatment</th>
<th>Salt Spray* 1000 Hours</th>
<th>20 Cycle** Scab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosion Resistance</td>
<td>CRS/Zinc Phos/Non-Chrome</td>
<td>1 – 2 mm</td>
<td>1 – 2 mm</td>
</tr>
</tbody>
</table>

(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.

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.