

# The first line of defense against corrosion



PPG POWERCRON®  
6th-generation family of cationic epoxy electrocoats



We protect and beautify the world®



## A robust product line that defends substrates and can streamline your electrocoat operation

When you need innovation, performance and service to support your electrocoat operation, PPG delivers. Since pioneering anodic electrocoat technology in 1963, we've been at the forefront of every major advancement in this technology, creating a standard of performance recognized the world over.

Our *Powercron* 6th-generation family of products includes FRAMECOAT® II, *Powercron* 6100HE and *Powercron* 6000CX electrocoats. Based on the same core cationic epoxy technology, each is uniquely formulated to hit specific, yet critical performance characteristics. Developed to work in tandem with a variety of pretreatments and sealers, the entire family delivers excellent corrosion resistance across a diverse range of markets, applications and complex parts.

The *Powercron* family also delivers streamlined operational performance and cost savings. High throwpower allows for densely loaded racks that can reduce storage and transportation of materials, while low-bake temperatures can save natural gas usage. The complete family of products is backed by PPG's world-class technical support.

### Suggested industries

Automotive parts and accessories

Appliance

General industrial

Heavy duty equipment

Transportation



### Unique benefits



Single- or two-component feed packages with metal-based catalysts



Range of products offering standard and high-edge protection of parts



VOC options as low as < 0.3 lbs./gal. (36 g/L) as supplied



Black, gray and color options available (not controlled)



Major OEM approvals simplify specification process and broaden potential customer base

Range of throwpower options

Low-cure products that may lower energy use



## The Powercron 6th-generation family of products

	FrameCoat II	Powercron 6100HE	Powercron 6000CX
<b>Product Characteristics</b>			
Markets	<ul style="list-style-type: none"> <li>Automotive parts and accessories</li> </ul>	<ul style="list-style-type: none"> <li>Automotive parts and accessories</li> <li>General industrial</li> <li>Heavy duty equipment</li> <li>Transportation</li> </ul>	<ul style="list-style-type: none"> <li>Automotive parts and accessories</li> <li>General industrial</li> <li>Heavy duty equipment</li> <li>Appliance</li> <li>Transportation</li> </ul>
Special Benefits	<ul style="list-style-type: none"> <li>Specially formulated for frames</li> <li>High-edge coverage of complex and/or sharp parts</li> <li>Improved surface profile versus competing electrocoats</li> </ul>	<ul style="list-style-type: none"> <li>High-edge coverage of complex and/or sharp parts</li> <li>Torque-modified formulations available</li> </ul>	<ul style="list-style-type: none"> <li>Standard coverage of densely racked parts</li> </ul>
Feed Package	2K	2K	1K or 2K
Cure	350° F (177° C) for 20 minutes	350° F (177° C) for 20 minutes	350° F (177° C) for 20 minutes
VOCs as Supplied	VOCs < 0.3 lbs./gal. (36 g/L)	VOCs < 0.3 lbs./gal. (36 g/L)	VOCs < 0.2 lbs./gal. (24 g/L)
Color	Black or gray	Multiple colors (not controlled)	1K: black 2K: multiple colors (not controlled)
Gloss at 60° (ASTM D523)	50 – 80	50 – 80	65 – 85
Dry Film Thickness (ASTM D7091)	0.5 – 1.5 mils	0.5 – 1.5 mils	0.4 – 1.5 mils
Substrates	Cold- and hot-rolled steel, zinc-coated steel, aluminum	Cold- and hot-rolled steel, zinc-coated steel, aluminum	Cold- and hot-rolled steel, zinc-coated steel, aluminum

<b>Performance Properties*</b>			
Pencil Hardness (ASTM D3363)	2H minimum	2H minimum	2H minimum
Direct Impact (ASTM D2794)	100 in.-lbs. minimum	100 in.-lbs. minimum	100 in.-lbs. minimum
Reverse Impact (ASTM D2794)	60 in.-lbs. minimum	60 in.-lbs. minimum	60 in.-lbs. minimum
Humidity Resistance (ASTM D1735)	1,000 hours minimum	1,000 hours minimum	1,000 hours minimum
Gravelometer (OEM performance standard)	6 minimum	6 minimum	6 minimum
Rust Spot (OEM performance standard)	<5 average	<5 average	40 – 60
Crosshatch Adhesion (ASTM D3359)	4B – 5B	4B – 5B	4B – 5B
Water Immersion (ASTM D870)	250 hours minimum	250 hours minimum	250 hours minimum
Throwpower (OEM performance standard)	12 – 15 inches	12 – 15 inches	12 – 15 inches
Corrosion Performance (1,000 Hours ASTM B117)	1 – 2 mm	1 – 2 mm	Zinc Phosphate: 1 – 2 mm Iron Phosphate: 3 – 6 mm

\* Testing performed on cold-rolled steel lab panels with zinc-phosphate pretreatment, 0.8 mils average film thickness, 20-minute cure at 320° F (160° C).





## PPG: WE PROTECT AND BEAUTIFY THE WORLD™



### A trusted global coatings leader

Operations in 70+ countries, with 100+ manufacturing facilities and ~50,000 employees



### Renowned color expertise

Trend-setting palettes for home, auto and industry paired with unrivaled color matching



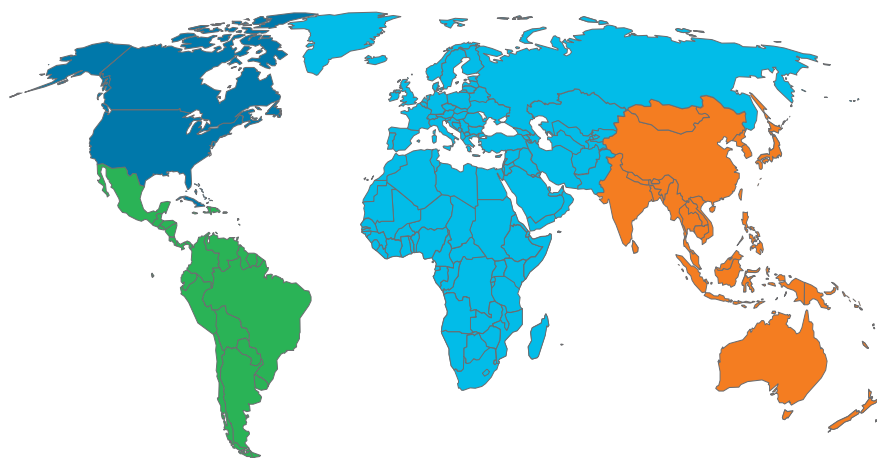
### Commitment to sustainability

Over 39% of annual sales from sustainably advantaged products and processes



### Dedication to innovation

3,500+ technical employees and \$470 MM average annual R&D investment



### Industrial coatings from PPG

- World-class technical services and training
- Help meeting specific, coatings-related environmental mandates
- Assistance setting up new equipment and identifying areas where your processes may be streamlined
- Troubleshooting production issues
- SECURE LAUNCH EXCELLENCE™ accelerated custom product formulation and color development process

To learn more about PPG coatings, please visit us online at [ppgindustrialcoatings.com](http://ppgindustrialcoatings.com), or contact one of the international sales offices listed below.

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