

# Electrocoats



PPG has been a global leader in electrocoat technology to the automotive industry for nearly 60 years, protecting over 750 million vehicles in this time. PPG introduced the first cationic electrocoat for automotive use and continues to bring innovative, cost-saving solutions to the automotive market.

Our full line of cathodic dip primers are used by all major automotive manufacturers worldwide. PPG's award-winning lead-free, low-VOC and hyper throwpower technologies are recognized as best-in-class materials providing exceptional corrosion resistance, trouble-free operation and optimal topcoat appearance.

PPG cathodic epoxy electrocoat products offer the ultimate corrosion and chemical resistance and serve as the benchmark for primer performance in the automotive industry. These excellent throwpower coatings feature superior salt spray, humidity and cyclic corrosion resistance, and provide a smooth, defect-free film that enables world class topcoat finishes. All of PPG's OEM and tier supplier cathodic epoxy coatings are formulated with no lead, low VOCs and low HAPs. These coatings are robust and easy to use with a wide window of operation.

## Automotive Body Products - Cathodic Epoxy

### Enviro-Prime® EPIC Technologies

PPG's innovative, tin-free electrocoat technology with superior smoothness, corrosion resistance and thin film pretreatment performance. Available in hyper throwpower versions.

### Enviro-Prime® EPIC 200R

PPG's latest generation of tin-free electrocoat designed with enhanced workability properties including extending the bake window. The formulation maintains the positive attributes of the EPIC technology while reducing biocide usage and is compatible with compact process and thin film pretreatment technologies.

## PPG Value Leveraging Core Competencies

### Product/Formulation

- Lead-free, low-VOC, and hyper throwpower technologies
- Exceptional corrosion resistance
- Superior applied cost performances

### Application/ Workability

- Smooth, defect-free film enabling world class topcoat finishes
- Robust and easy to use with a wide operation window

### Sustainability

- Low-VOCs
- Low HAPs or HAPs free
- Close loop process
- Lower chemical usage thanks to hyper throwpower evolution
- Reduced bake temperatures enable capital avoidance, CO<sub>2</sub> reduction, and lightweight enabling
- Today's technologies use 40% less energy and 60% less water in the anolyte than originating technologies

Trusted global supplier to OEMs & Tiers

### Enviro-Prime® EPIC 300

The latest product in the Enviro-Prime EPIC technologies is designed specifically for the electric vehicle segment. This formulation continues to bring the added benefits of EPIC 200R, but further expands the lower end of the bake window, allowing for heavier gauge metal needed for battery protection without the added burden of oven extensions that require capital investment. Additionally, its extended bake window allows OEMs to maintain current production volume and line speeds when introducing electric vehicles into manufacturing platforms.





### Automotive Body Products - Cathodic Epoxy *continued*

#### **Enviro-Prime® 7000**

Winner of the Automotive News PACE award for its ability to reduce exterior film builds while maintaining or increasing inner recess coverage. Features lower operating and material costs as well as a smaller environmental footprint. Available for use over thin film pretreatment or zinc phosphate.

#### **Enviro-Prime® 2000 / 2010**

Optimized for use under compact process topcoat systems with exceptional smoothness and appearance. Lead-free technology with low weight loss, robust cure and available with Di Butyl Tin Oxide free catalysts.

#### **Enviro-Prime® NT**

A higher edge protection formulation with smoother film and higher throwpower than conventional products. Features a novel pigment package that offers excellent oil contamination resistance.

### Automotive Part Products - Cathodic Epoxy

#### **Powercron® 6000CX**

PPG's high performing black cationic epoxy finish approved for use on automotive parts. Available in an easy to use, single component formulation.

#### **Powercron® 6100 / 6200**

A high performing cationic epoxy finish from PPG, formulated to meet the corrosion requirements of the heavy duty truck and many other markets without the use of heavy metals, namely lead and chrome. High edge protection versions available.

#### **Framecoat® II**

PPG's latest generation of a black cathodic epoxy electrocoat designed to meet both frame and small part specifications. Approved for use on frames and automotive parts.



Visit [ppgautocoatings.com](http://ppgautocoatings.com) or [ppg.com](http://ppg.com) for more information

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