

SURFACE TREATMENT

PPG POWERCRON® ADVANTEDGE™ Electrocoat

DSF 1.4.3_Black

Definition:

Powercron AdvantEdge is PPG's 9th Generation tin NIA (not intentionally added) electrocoat, offers several performance and environmental advantages over other products.

This surface finish is formulated with proprietary, patented catalyst technology that does not use tin or other heavy-metal based compounds.

This coating also provides improved throwpower, which enables more uniform film builds on complex parts.

Benefits:

- Strong corrosion resistance.
- Packaging – 1K formula.
- Standard bake 320°F / 160°C – 20 min.
- Low VOC (0.8 lbs/gal)

Product Characteristics:

- Colour: Black
- Gloss @ 60° – ASTM D523 – 50-70 gloss units
- Film Thickness – ASTM D7091 – 0.4-1.5 mils (10-38 Microns)

Technical Properties:

Property	Standard	Results
Pencil Hardness	ASTM D3363	3H - 5H
Direct Impact	ASTM D2794	100 in-lbs minimum
Reverse Impact	ASTM D2794	60 in-lbs minimum
Humidity Resistance	ASTM D1735	1000 hours minimum, 5B
Gravelometer	GM9508P	6 minimum
Rust Spot	GM96239	<5 average
Cross Hatch Adhesion	ASTM D3359	5B
Water Immersion	ASTM D870	500 hours minimum, 5B
Throw Power	GM 9535P	11 – 13 inches
Salt Spray Resistance	B117: 500 hours	0.5 – 1 mm (CRS/Zinc Phos/Chrome NIA [Not Intentionally Added])
Salt Spray Resistance	B117: 1000 hours	1 – 2 mm (CRS/Zinc Phos/Chrome NIA [Not Intentionally Added])
Salt Spray Resistance	GM14872: 28 Cycle	3 – 4 mm (CRS/Zinc Phos/Chrome NIA [Not Intentionally Added])

Additional Information:

- This does not pass our ESD Testing – DST 1.1.5.

Issue	01	02	03	04	05	06	07	08
Date	30/06/21							