



TECHNICAL BULLETIN

Highlights

POWERCRON 830 has excellent corrosion resistance in an acrylic formulation. Its advantages include:

- Offers corrosion and UV resistance in one package.
- Corrosion resistance in excess of 500 hours.
- The ability to replace two-coat operations with a similarly performing one-coat process.
- Excellent throwpower for products with deep recesses or when dense line loads are common.
- Excellent chip resistance.
- Low VOC.
- Non-HAP coating.
- Heavy metal-free formulation available.
- UL 1332 recognized.

Technical Properties

| Property | Test Method | Performance |
|---------------------|-------------|-------------------|
| Color | --- | Medium to Dark |
| Film Thickness | --- | 0.7 - 1.3 Mils |
| Gloss - 60 Degree | ASTM D523 | 20 - 80 |
| Pencil Hardness | ASTM D3363 | 2H+ |
| Crosshatch Adhesion | ASTM D3359 | 95 - 100% |
| Direct Impact | ASTM D2794 | 60 in-lb Minimum |
| Salt Spray | ASTM B117 | 500 Hours Minimum |
| Humidity | ASTM D1735 | 500 Hours Minimum |
| Water Soak | ASTM D870 | 250 Hours Minimum |

Film property ranges based on various substrates and typical pretreatments

| Property | Substrate / Pretreatment | Salt Spray* 500 Hrs | Salt Spray* 1000 Hrs | 20 Cycle** Scab |
|----------------------|--------------------------|------------------------|-------------------------|--------------------|
| Corrosion Resistance | CRS/Zinc Phos/Non-Chrome | 0 - 2 mm | 2 - 4 mm | 3 - 6 mm |
| | CRS/Iron Phos/Non-Chrome | 3 - 5 mm | 5 - 10 mm | 4 - 8 mm |

(Average Total Scribe Creep), * Salt Spray - ASTM B117
**Cycle Scab-GM9511P, Cold Rolled Steel Lab Panels

Commercial Uses

- Agricultural Implements
- Automotive, Truck & Motorcycle Accessories
- Clears
- Primer under Powder
- Switchgear
- Wheels
- Windshield Wipers

Application Data

Bake: 20 minutes at 350°F (177°C) metal temperature – Standard Cure
VOC: 1.6 – 2.1 lbs per gallon minus water (as supplied)
HAPs: None
Heavy Metals: None



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