



ELECTROCLEAR® 2700

ELECTROCLEAR 2700 FEATURES

ELECTROCLEAR 2700 represents a cost-effective, environmentally friendly product for use in the general metal finishing market as a high gloss decorative clear coating. Its advantages include:

- High performance – excellent solvent and chemical resistance
- Reduced waste with high transfer efficiency (>95%).
- Easy extension of a metal finishing process.
- Robust tank operation.
- Wide process latitude to adapt to customer operations.
- Delivers a high quality reproducible finish from a low maintenance process.
- Excellent throw power delivers uniform coating on complex parts.
- Provides sharper image and higher DOI than traditional spray or dip lacquer products.
- Waterborne paint, low VOC, with reduced fire hazard and exposure of hazardous materials to workers.
- The future financial and environmental solution for lacquering metal parts.

PRODUCT DESCRIPTION

ELECTROCLEAR 2700 (EC2700) is a polyurethane clear electro-paint that delivers a high gloss decorative finish with additional humidity and corrosion resistance properties when required. These products are formulated for application over a variety of plated and base metal substrates, including Gold, Brass, Silver, Nickel, Aluminum, Copper, and Steel. The cured films can provide additional mechanical and chemical resistance properties.

ELECTROCLEAR 2700 is a high-performance cationic clear coating formulated to be operation friendly with a very *robust* process window, capable of producing a high build, high gloss coating with *excellent solvent and chemical resistance* properties.

ELECTROCLEAR 2700 has been targeted for key market segments that require coatings to meet the BHMA specifications for hardware. Shown below are some specific markets where ELECTROCLEAR 2700 will provide a superior coating.

COMMERCIAL USES

ELECTROCLEAR 2700 is suitable for use as a one-coat finish for the following applications:

- Optical Frames
- Household Decorations
- Furniture Hardware
- Writing Instruments
- Cigarette Lighters
- Extrusions
- Lighting
- Costume Jewelry
- Door Hardware
- Picture Frames
- Office Hardware
- Hand Tools
- Military Insignia
- Performance After-market



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APPLICATION DATA

Bake (nominal): 20 minutes at 320°F (160°C) metal temperature
Bake Range: 285 - 375°F (140 - 190°C) TBD based upon customer requirements
VOC: 1.5 -2.0 lbs/gal minus water (as supplied)
Heavy Metals: None

FILM PROPERTIES

Property	Test Method	Performance
Color	---	Clear
Film Thickness	---	10 - 25 microns
Gloss - 60 Degree	ASTM D523	Full gloss
Pencil Hardness	ASTM D3363	5H - 6H
Crosshatch Adhesion	ASTM D3359	100%
Humidity/Adhesion	ASTM D1735/D3359	500 hrs./100% (no adhesion loss)
Acetone /MEK Rubs ⁽¹⁾	---	2000+ (20+ microns)
Perspiration	ANSI/BHMA 156.18-2000	5-8 cycles
Corrosion (Salt Spray)	ASTM B117	500 - 1,000 hrs. **
UV Durability	QUV-A	750 - 1,000 hrs. no effect***
Taber Abrasion	ASTM D4060	<25 mg./300 cycles

Film properties were measured with 20+ microns coating on polished brass panels.

** Corrosion numbers vary with substrate and pretreatment.

*** A simple formulation adjustment to EC2700 will boost the QUV-A numbers to 2,000+ hrs. and weatherometer numbers to 5,000+ hrs.

PPG Industries, Inc.
151 Colfax St.
Springdale, PA 15144

1-866-PPG-TRUE

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