

## 870 Series

## Waterborne Acrylic Polyurethane Enamel

AQUACRON™ 870 Series is a low VOC, single component waterborne enamel that is made from an acrylic resin modified with a self-crosslinked polyurethane resin that gives the coating exceptional film properties. This enamel can be used as a low gloss smooth coat or as a textured coating over a wide variety of substrates, including: pretreated steel, pretreated aluminum, ABS, PVC, and polycarbonate.

### Substrates (Direct)

- Cold rolled steel
- Hot rolled steel
- Aluminum
- Galvanized
- Galvaneal

### Substrates (Over primer)

- Plastics<sup>1</sup>
- Fiberglass<sup>1</sup>

### Suggested Primers

- *Aquacron* 390-9300 Series

### End Use Markets

- Furniture
- Metal fabrication
- Medical device
- Electrical enclosures
- Industrial equipment

### Product Codes

- MV870LC – Low Gloss Clear
- MV870LW – Low Gloss White

### Product Highlights

- Very fast drying
- 1K polyurethane performance
- Excellent block resistance
- Tap water reduction and clean-up
- Excellent flexibility
- Can be textured
- No reportable HAPS
- VOC < 2.10 lbs. /gal. (252 g/L)

### Physical Properties

Property	Value
Solids % by weight	39.0 – 49.0
Solids % by volume	29.0 – 37.0
Weight / Gallon	9.4 – 10.3 lbs./gal. (1128 – 1236 g/L)
Coverage @ 1 mil, 100% TE	465 – 593 ft. <sup>2</sup> /gal. (43 – 55 m <sup>2</sup> /3.785L)
60° Gloss	30 – 40
Package viscosity	35 – 40" Zahn #3 Cup
VOC (less water)	2.00 lbs./gal. (240 g/L)
Shelf life	1 year

### Performance Properties

Test	Result*
Pencil hardness	2H
Conical mandrel (1/8")	Pass
Adhesion	5B, excellent
Salt Spray	150 hours
Humidity	150 hours

\*results obtained over iron phosphate CRS panels



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### Substrate Protection

The surface must be clean and free of all surface contamination. A chemical pretreatment such as PPG Chemfos® KA Cleaner/Coater or a similar conversion coating will improve the performance properties of the coating system. See your PPG Representative for recommendations.

### Cure Schedule

Paint film is not fully cured for 7 days. Drying time listed may vary, depending upon film build, color selection, temperature, humidity and degree of air movement.

### Physical Properties

#### Air Dry Times<sup>2</sup>

To Touch	20 min.
To Handle	1 hour
To Topcoat	1 hour

#### Force Dry Times

Flash Time	15 – 20 min. (ambient)
Temperature	180 – 220°F (82 – 104°C)
Time at Temperature	10 – 30 min.

#### Footnotes

1. Due to the variability in plastic and fiberglass substrates, it's highly recommended to test adhesion on a small sample before application
2. Excess film thickness will retard dry times and affect the recoat window. Do not apply at temperatures below 50°F (10°C).

The technical data presented is information believed by PPG to be currently accurate; however, no guarantee of accuracy, comprehensiveness or performance is given or implied. Continuous improvements in coating technology may cause future technical data to vary from what is in this document. Product is intended for application by trained personnel in a factory or shop application. Do not attempt to use product without the current Safety Data Sheet. The performance of a product can fluctuate due to surface preparation technique, method of application, operating conditions, the material it is applied to or with, and use. It is strongly recommended that products be tested with respect to these factors prior to full scale use.

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### Mix Directions

Reduction	Water, up to 10% if needed
Line/Flush Clean Up	Soap and water, TFA880-70 or MV389C

### Application

Equipment	Conventional, HVLP, air-assisted airless, airless
Recommended Wet Film Build	3.0 – 4.5 mils 76 – 114 microns
Recommended Dry Film Build	1.0 – 1.5 mils 25 – 38 microns

### Additional Information

In-Service Temperature: 180° (82°C)
Do not apply at temperatures below 50° (10°C)
Protect from freezing

