

# SPECTRACRON®

## 100 Series

### Acrylic-Modified Alkyd Enamel

## Product Data Sheet

### Substrates (Direct)

- Cold rolled steel
- Hot rolled steel
- Aluminum<sup>1</sup>

### Substrates (Over primer)

- Blasted Steel
- Aluminum

### Suggested Primers

- Spectracron 111 Series
- Spectracron 135 Series

### End Use Markets

- Industrial equipment
- Metal fabrication
- Heavy duty equipment
- Agricultural equipment
- Electrical enclosures

### Product Codes

- QT100HC – High Gloss Clear
- QT100HW – High Gloss White

SPECTRACRON® 100 Series Acrylic-Modified Alkyd Enamels are single component enamels designed for industrial use on metal surfaces. The acrylic modification provides an upgrade in performance over standard alkyd enamels. These topcoats can be applied direct to metal substrates or over a primer.

### Product Highlights

- Good color & gloss retention
- No heavy metals
- Good adhesion
- Available in a wide range of custom colors
- Fast drying
- Excellent flow and leveling
- Direct-to-metal capable
- Can enhance appearance properties with a urethane hardener

### Physical Properties

Property	Value
Solids % by weight	46.3 ± 6.0
Solids % by volume	39.0 ± 2.0
Weight / Gallon	7.0 – 9.5 lbs. /gal. (840 – 1140 g/L)
Coverage @ 1 mil, 100% TE	525 – 600 ft. <sup>2</sup> /gal. (49 – 56 m <sup>2</sup> /3.785L)
60° Gloss	20 – 90
Package viscosity	25 – 35" on #2 EZ Zahn Cup
VOC (less exempts)	5.0 lbs./gal. (600 g/L)
VOC (actual)	5.0 lbs./gal. (600 g/L)
HAPS	2.0 – 3.6 lbs./gal. (240-432 g/L)
Shelf life	2 years

### Performance Properties

Test	Result*
Pencil hardness	HB – H
Conical mandrel (1/8")	Pass
Adhesion	5B
Salt Spray	Pass 100 hours
Humidity	Pass 100 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. Use of a recommended primer will also improve performance. 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	15 – 30 min.
To Handle	1 – 2 hours
To Recoat	Before 6 hours or after 30 hours

#### Force Dry Times

Flash Time	10 min. (ambient)
Temperature	Up to 180°F (82°C)
Time at Temperature	20 – 30 min.

#### Footnotes

1. Adhesion direct-to-aluminum can be achieved when using a fluoride containing conversion coating.
2. Excess film thickness will retard dry times and affect the recoat window.

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	Ready to spray. Typically none required. If needed: Q30, Q50, Q160, Q70** or Q80
Line/Flush Clean Up	Q60 or Q30
Blend Ratio (Optional, not required)	19:1 with Q3501 15:1 with GXH1086
Pot Life (If blended)	10 hours

### Application

Equipment	Conventional and HVLP
Electrostatic**	Add of 5% Q70 to help pattern, atomization, and wrap
Recommended Wet Film Build	2.5 – 5.5 mils 64 – 140 microns
Recommended Dry Film Build	1.0 – 2.0 mils 25 – 51 microns

### Additional Information

In-Service Temperature: 180°F (82°C)
Do not apply at temperatures below 50°F (10°C)
Protect from freezing
Not recommended for use on zinc rich surfaces

