

AQUACRON®

440 Series

Water-Reducible Alkyd Enamel

Product data sheet

Substrates (Direct)

- Cold rolled steel
- Hot rolled steel

Substrates (Over Primer)

- Blasted steel
- Aluminum

Suggested Primers

- Aquacron 833 Series
- Aquacron 835 Series
- Aquacron 447-9303 Series
- Aquacron 8135 Series

End Use Markets

- Waste containers
- Metal fabrication
- Custom coaters

AQUACRON® 440 Series Water Reducible Alkyd Enamels are fast drying interior/exterior enamels intended for industrial use on bare or primed metal surfaces. This easy to apply water-based product is a good choice for low VOC applications where flammability and solvent issues are critical.

Product Highlights

- Fast drying
- Good exterior durability
- Strong hardness and abrasion resistance
- Water reduction and clean-up
- No recoat window
- Available in a wide range of colors and gloss
- No reportable HAPS
- VOC < 2.8 lbs. /gal. (336 g/L)

Physical Properties

Property	Value
Solids % by weight	28.5 – 43.6
Solids % by volume	25.0 - 29.2
Weight / Gallon	8.5 -10.1 lbs./gal. (1020-1212/L)
Coverage @ 1 mil, 100% TE	395 – 467 ft. ² /gal. (36 - 44 m ² ./3.785L)
60° Gloss	5-90
Application viscosity	35- 60" Zahn #3 Cup
VOC (less water)	2.5-2.8 lbs./gal. (300-336 g/L)
VOC (actual)	1.1 - 1.4 lbs./gal. (132 - 168 g/L)
Shelf life	6 months

Performance Properties

Test	Result*
Pencil hardness	HB-F
Conical mandrel (1/8")	Pass
Adhesion	5B - Excellent
Salt Spray	150 hours
Humidity	250 hours

* results were 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 @ 77°F (25°C) & 50% Relative Humidity

To Touch	20-40 min.
To Handle	1½ - 4 hours
To Topcoat	30 min.

Force Dry Times

Flash Tim	10 min. (ambient minimum)
Temperature	Up to 160 °F (71 °C)
Time at Temperature	10 – 30 min.

Medical response

Emergency medical or spill control information: US (412) 434-4515; Canada (514) 645-1320; and Mexico 01-800-00-21-400. Please have label information available.

Safety Data Sheets (SDS) for the PPG products mentioned in this publication are available through versolon.com (Safety, SDS Search) or through your PPG store or distributor. For additional information regarding this product, see the SDS and label information.

Footnotes

1. Excess film thickness will retard dry times and affect the recoat window. Do not apply at temperatures below 50°F (10°C)

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Mix Directions

Reduction	Water, up to 10% for if needed
Line/Flush Clean Up	Soap and warm water or MV398C Equipment Cleaner

Application

Equipment	Conventional, HVLP, Airless, Air-assisted Airless
Recommended Wet Film Build	4.0 – 7.5 mils 102 – 191 microns
Recommended Dry Film Build	1.0 – 2.0 mils 25 – 51 microns

Additional Information

In-Service Temperature: 150 °F (65 °C) maximum

Do not apply at temperatures below 50 °F (10 °C)

Protect from freezing

Not recommended for use on galvanized, galvanneal or zinc rich surfaces

