

## AQUACRON® 835 WATER REDUCIBLE ALKYD PERFORMANCE PRIMERS

### DESCRIPTION:

**AQUACRON® 835 Water Reducible Alkyd Performance Primers** are fast drying, interior/exterior primers intended for industrial use on bare metal surfaces where corrosion resistance is needed. Suitable applications include metal fabrication, structural steel supports and beams, industrial machinery, racking, shelving and utility trailers.

### HIGHLIGHTS:

- ❖ Fast dry performance primer
- ❖ Excellent corrosion and early water resistance
- ❖ Interior & exterior applications
- ❖ Low odor
- ❖ Contains no heavy metals
- ❖ Tap water reduction & clean up
- ❖ <1 lb./gal. organic HAPs
- ❖ 2.8 lbs./gal. VOC compliant

### TECHNICAL PROPERTIES:

PROPERTY	METHOD	RESULT*
Colors		Gray (QAP835-GRY) Red Oxide (QAP835-ROX) White (QAP835-WHT)
Gloss Range @ 60° Angle	ASTM D523	Low
Pencil Hardness	ASTM D3363	B
Conical Mandrel (1/8")	ASTM D522	Pass
Adhesion	ASTM 3359	5B
Humidity – 500 Hrs.	ASTM D2247	No Effect
Salt Spray – 500 Hrs.	ASTM B117	2mm Creepage
Substrates		CRS, HRS
Recommended Topcoat(s)		AQUACRON: 880, 890, MV488 SPECTRACRON** : 100, 110, 150

\*These results were obtained over iron phosphated CRS panels.

\*\* Solvent based topcoats should only be applied after a 7 day cure.

### PHYSICAL PROPERTIES (Detailed regulatory information on last page):

PROPERTY	VALUE
Weight per gallon	10.1 – 10.3 lbs./gal.
Weight Solids (%)	46.0 ± 2.0
Volume Solids (%)	31.0 ± 2.0
VOC (less water)	2.7 – 2.8 lbs./gal.
VOE (actual)	1.4 ± 0.1 lbs./gal.
Viscosity	93 – 100 Krebs units
Flash Point	122°F (50°C)
Coverage (@ 1 mil, no loss)	465 – 529 sq. ft./gal.
Shelf Life - unopened container	1 year

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### SURFACE PREPARATION:

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.

### APPLICATION DATA:

Mixing Instructions: Mix thoroughly before and during use  
 Wet Film Thickness: 4.8 – 5.5 mils  
 Dry Film Thickness: 1.4 – 1.6 mils  
 Reducer: Water (up to 8% if needed)  
 Spray Viscosity: 25 - 35" #3 EZ Zahn  
 Brush Application: High quality synthetic bristle brush (for touch-up only)  
 Roller Application: 3/8" nap, solvent resistant core  
 Line Flush/Clean Up: TFA880-70 (AQUATHIN® Refresher), MV398 Equipment Cleaner

SPRAY APPLICATION	SPRAY EQUIPMENT*	PRESSURE POT	FLUID PRESSURE (psi)	ATOMIZING AIR (psi)	TIP
Conventional	Binks 95	3/8" fluid	8 - 10	45 - 55	66SS x 66PR
HVLP	DeVilbiss JGHV-531	3/8" fluid	8 – 10**	55 - 60	FF
Air Assisted Airless	Graco Alpha A.A.	n/a	1000 - 1500	30 - 50	0.011 – 0.013"
Airless	Graco Airless	n/a	1800 - 2300	n/a	0.013 – 0.015"

\*or equivalent

\*\*atomization pressure should read <10 psi @ the cap

### CURE SCHEDULES:

#### Air-dry (assumes 77°F & 50% Relative Humidity)

To Touch: 15 min.  
 To Handle: 20 – 30 min.  
 To Topcoat: after 30 min.

#### Bake / Force Cure

Flash Time: 10 min. (ambient)  
 Substrate Temp: up to 160°F  
 Bake Time: 10 – 20 min.

### ADDITIONAL INFORMATION:

- ❖ Primer must be thoroughly dry before applying solvent based topcoats
- ❖ Do not apply at temperatures below 50°F
- ❖ Excess film thickness and high humidity will retard dry times
- ❖ Dry times can be improved with air movement
- ❖ In-Service Temperature: 150°F
- ❖ Film color may yellow or darken at elevated temperatures, however, film integrity will be maintained
- ❖ Protect from freezing
- ❖ Not recommended for use on galvanized, galvaneal or zinc rich surfaces

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**Physical Constants and Regulatory Information:** *(All values are theoretical, depend on color and are Ready-to-Spray. Actual values could vary slightly due to manufacturing variability.)*

	<b>QAP835-GRY</b>	<b>QAP835-ROX</b>	<b>QAP835-WHT</b>
Percent solids (by weight)	47.37%	44.69%	47.38%
Percent solids (by volume)	31.85%	30.23%	31.85%
Flashpoint	122°F (50°C)	122°F (50°C)	122°F (50°C)
HAPs	< 0.3 lbs/gal	< 0.3 lbs/gal	< 0.3 lbs/gal
Photo-chemically reactive	No	No	No
<b>RTS Combinations:</b>	<b>QAP835-GRY</b>	<b>QAP835-ROX</b>	<b>QAP835-WHT</b>
Volume Ratio:	As is	As is	As is
Applicable Use Category	Primer Sealer	Primer Sealer	Primer Sealer
VOC Actual (g/L)	170	164	170
VOC Actual (lbs/gal)	1.42	1.37	1.42
VOC Regulatory (less water less exempt) (g/L)	330	332	330
VOC Regulatory (less water less exempt) (lbs/gal)	2.75	2.79	2.75
Density (g/L)	1240	1212	1240
Density (lbs/gal)	10.34	10.10	10.34
Volatiles wt. %	52.6	55.4	52.6
Water wt. %	38.5	41.4	38.5
Exempt wt. %	0.0	0.0	0.0
Water vol. %	47.8	50.2	47.8
Exempt vol. %	0.0	0.0	0.0

Product Information Effective 02/2011

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