

AQUACRON® QAP833 WATER REDUCIBLE ALKYD SHOP

DESCRIPTION:

AQUACRON® 833 Water Reducible Alkyd Shop Primers are fast drying, interior/exterior primers intended for industrial use on bare metal surfaces. Suitable applications include metal fabrication, structural steel supports and beams, industrial machinery, cabinets, racking and shelving.

HIGHLIGHTS:

- Fast dry, economical primer
- Interior & exterior applications
- Low odor
- Contains no heavy metals
- Tap water reduction & clean up
- <1 lb./gal. organic HAPs

TECHNICAL PROPERTIES:

PROPERTY	METHOD	RESULT*
Colors		Black (QAP833-BLK) Gray (QAP833-GRY) Red Oxide (QAP833-ROX) White (QAP833-WHT)
Gloss Range @ 60° Angle	ASTM D523	Low
Pencil Hardness	ASTM D3363	B
Conical Mandrel (1/8")	ASTM D522	Pass
Adhesion	ASTM 3359	5B
Substrates		CRS, HRS
Recommended Topcoat(s)		See compatibility chart

*These results were obtained over iron phosphated CRS panels.

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

PHYSICAL PROPERTIES:

PROPERTY	VALUE
Weight per gallon	9.5 – 10.2 lbs./gal.
Weight Solids (%)	43.0 ± 3.0
Volume Solids (%)	30.0 ± 2.0
VOC (less water)	2.8 – 2.9 lbs./gal.
VOE (actual)	1.4 ± 0.1 lbs./gal.
Viscosity	88 – 100 Krebs units
Flash Points:	
QAP833-BLK	106°F (41°C)
QAP833-GRY	122°F (50°C)
QAP833-ROX	122°F (50°C)
QAP833-WHT	122°F (50°C)
Coverage (@ 1 mil, no loss)	450 – 510 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)
 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
- Exterior applications should be selected with caution
- 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.)

	QAP833-GRY	QAP833-ROX	QAP833-WHT	QAP833-BLK
Percent solids (by weight)	46.82%	44.78%	45.53%	40.42%
Percent solids (by volume)	32.16%	30.98%	31.09%	29.03%
Flashpoint	122°F (50°C)	122°F (50°C)	122°F (50°C)	106°F (41°C)
HAPs	< 0.3 lbs/gal	< 0.3 lbs/gal	< 0.3 lbs/gal	< 0.3 lbs/gal
Photo-chemically reactive	No	No	No	No
RTS Combinations:	QAP835-GRY	QAP835-ROX	QAP835-WHT	QAP833-BLK
Volume Ratio:	As is	As is	As is	As is
Applicable Use Category	Primer Sealer	Primer Sealer	Primer Sealer	Primer Sealer
VOC Actual (g/L)	176	170	170	174
VOC Actual (lbs/gal)	1.47	1.42	1.42	1.45
VOC Regulatory				
(less water less exempt) (g/L)	335	335	335	354
VOC Regulatory				
(less water less exempt)				
(lbs/gal)	2.80	2.80	2.80	2.95
Density (g/L)	1223	1203	1215	1144
Density (lbs/gal)	10.19	10.03	10.13	9.53
Volatiles wt. %	53.18	55.22	54.47	59.58
Water wt. %	38.54	40.61	40.21	42.97
Exempt wt. %	0.0	0.0	0.0	0.0
Water vol. %	47.1	48.8	48.8	49.1
Exempt vol. %	0.0	0.0	0.0	0.0

Product Information Effective 02/2011

AQUACRON® is a registered trademark of PPG Industries Ohio, Inc.

For more information contact:

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