



AQUACRON® 833 SERIES WATER REDUCIBLE SHOP PRIMER

DESCRIPTION:

AQUACRON 833 SERIES Water Reducible Shop Primer is a fast drying interior/exterior primer intended for industrial use on bare metal surfaces. Suitable applications include metal fabrication, structural steel, industrial machinery, cabinets, racking and shelving.

HIGHLIGHTS:

- ❖ Fast dry economical primer designed for interior and limited exterior applications
- ❖ Can be field top coated with water reducible alkyd enamels or solvent based enamels
- ❖ Contains no heavy metals
- ❖ 2.8 lb / gallon VOC compliant
- ❖ Less than 1 lb of organic HAPS/gallon of solids
- ❖ Tap Water reduction and clean-up
- ❖ Low odor

TECHNICAL PROPERTIES*:

PROPERTY	METHOD	RESULT
Color		Gray QAP833-GRY; White QAP833-WHT; Red Oxide QAP833-ROX & Black QAP833-BLK
Gloss @ 60° Angle	ASTM D523	Flat
Pencil Hardness	ASTM D3363	B
Conical Mandrel – 1/8" Bend	ASTM D522	Pass
Adhesion – Test Method B	ASTM D3359	5B
Substrates		CRS, HRS
Topcoat (If Used)		SPECTRACRON 100, 110** AQUACRON 880

*Results obtained over iron phosphated CRS panel. Coating applied as specified.

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

PHYSICAL PROPERTIES:

PROPERTY	VALUE
Weight per gallon	9.8 – 10.3 lbs / gallon
Solid % (Weight)	43 ± 3%
Solid % (Volume)	29 ± 2%
Viscosity	93 – 100 Krebs Units
Flash Point	110°F (43°C)
VOC (less water)	2.7 – 2.8 lbs / gallon
VOE	1.3 ± 0.1 lbs / gallon
Coverage	433 – 465 sq ft / gallon at 1 mil (no loss)
Shelf Life	1 year unopened



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SURFACE PREPARATION:

The surface should be clean and free of all contamination. Chemical pretreatment will improve adhesion; the addition of a topcoat will improve overall product performance properties.

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
Thinner: 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 can be used to purge lines and equipment

SPRAY APPLICATION	SPRAY EQUIPMENT	PRESSURE POT	FLUID PRESSURE (PSI)	ATOMIZING AIR (PSI)	TIP
Conventional	Binks 95 *	3/8" Fluid	8 - 10	55	66SS X 66SD
HVLP	DeVilbiss JGHV-531*	3/8" Fluid	8 - 10	55 - 60	FF
Air Assisted Airless	Graco Alpha A.A.*	NA	1000-1500	30-50	.011 - .013
Airless	Graco Airless	NA	1800-2300	NA	.013 - .015

*Or Equivalent

CURE SCHEDULE:

Air Dry @ 77°F: Dry to touch: 15 minutes
Dry to handle: 20 – 30 minutes
To Topcoat: After 30 minutes
Force Dry: Flash 10 min @ ambient: 10 - 20 minutes at up to 160°F

ADDITIONAL INFORMATION:

- ❖ Not intended for application below 50°F
- ❖ Excessive film thickness and high humidity conditions can retard dry times
- ❖ Dry times can be improved with air movement
- ❖ In-Service Temperature: 150°F (Note: film color may yellow or darken as 150°F is approached, however, the Film integrity will be maintained.)
- ❖ Product is not recommended for use over galvanized substrates
- ❖ Protect from freezing

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CONTACT 1-866-PPG TRUE

It is recommended that the customer should trial the product for adhesion and compatibility using all substrates, surface preparation techniques and application processes in the environment the product will be intended to be used in prior to actual product application.

The technical data presented in this bulletin is based upon information believed by PPG to be currently accurate. However, no guarantees of accuracy, comprehensiveness or performance are given or implied. Continuous improvements in coatings technology may cause future technical data to vary from what is in this bulletin.

