

AQUACRON® MV447-9303 Water Reducible Alkyd Primer

HIGHLIGHTS:

- Fast drying
- Good early water spot resistance
- Excellent corrosion resistance
- Can be topcoated w/WR topcoats the same day
- VOC compliant to <2.8 lbs./gal. (less exempts)
- Excellent application properties
- Sprays well with airless, AA-airless & electrostatic equipment

RECOMMENDED
TOPCOATS / PRIMERS:

- AQUACRON MV488 Series topcoats
- AQUACRON 880 Series topcoats
- AQUACRON 890 Series topcoats
- Solvent based and 2-component topcoats
 - After primer has been cured for 5 days
 - Test patch is recommended to ensure compatibility with topcoat(s)

PRODUCT CODES / COLORS:

MV447-9303 / Gray

EXAMPLE PRODUCT USES

- Agricultural equipment
- Axles, pumps
- General metal applications
- Structural steel
- Utility trailers

DESCRIPTION:

AQUACRON® MV447-9303 is a fast drying, water reducible, alkyd primer which exhibits good durability and excellent corrosion resistance.

TECHNICAL PROPERTIES:

PROPERTY	METHOD	RESULT
Adhesion	ASTM D3359	5B
Conical Mandrel Bend	ASTM D522	Passes 1/8" mandrel bend
Gloss (60° angle)	ASTM D523	10 - 70 units (film thickness dependent)
Humidity Resistance	ASTM D2247	250 hrs.
Pencil Hardness	ASTM D3363	F-H
Salt Spray Resistance	ASTM B117	150 hrs.
Solvent Resistance (>50 DR w/Xylene, MEK & IPA)	ASTM D5402	No break through

PHYSICAL PROPERTIES:

PROPERTY	VALUE
Coverage (@ 1 mil, no loss)	500 - 550 sq. ft./gal.
Flash Point	105°F
Shelf Life	6 months
VOC	2.8 lbs./gal. (less exempts)
VOE	1.6 lbs./gal. (actual)
Volume Solids	33.2 ± 2.0%
Weight per Gallon	11.47 ± 0.25 lbs./gal.
Weight Solids	53.0 ± 2.0%

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SUBSTRATES:

Aluminum	A fluoirde containing pretreatment is required for adhesion
CRS, HRS	A pretreatment will enhance the adhesion & corrosion performance
Galvaneal	Not recommended
Galvanized Steel	Not recommended

CURE SCHEDULE:

To Touch*	20 - 30 min.
To Handle*	1 - 2 hr.
To Recoat*	2 hr.
To Topcoat*	4 hrs. w/Aquacron MV Series WR topcoats 5 days w/SB topcoats
Force Dry	10 - 30 min. @ 150 - 220°F

*assumes 77°F & 50% relative humidity

ADDITIONAL INFO:

- Minimum cure temperature is 50°F
- Air dried parts can be placed outside after 7 hours
- Not recommended for galvanized, galvaneal, plastic substrates or fiberglass

SURFACE PREPARATION:

For mild exposure conditions the surface should be prepared according to the SSPC-SP2 Hand Tool Cleaning method. This calls for cleaning the surface by wire brushing, scraping, chipping and sanding. Surface must be clean and free of all surface contamination (ex. oil, dirt, rust and foreign matter). A compatible waterbased cleaner such as the MV398C can be used to remove such surface contamination. Any old paint or mill scale must be removed by abrasive blasting as outlined in SSPC-SP 6 (NACE No. 3) Commercial Blast Cleaning. A conversion coating containing fluoride is required for adhesion on aluminum substrates.

APPLICATION DATA:

APPLICATION	INSTRUCTION
Mixing Instructions	Stir thoroughly before using
Wet Film Thickness (mils)	3.5 - 4.0
Dry Film Thickness (mils)	1.0 - 1.3
Reduction Rate	Not normally necessary (if needed up to 5%)
Reducer	Water or Aquathin Refresher TFA880-70
Clean Up	Early clean up can be done with water MV398C Equipment Cleaner is recommended for cleaning spray tips and flushing spray equipment
Viscosity	30 - 35" Zahn #3 cup

SPRAY APPLICATION:

Spray Application	Spray Equipment	Tip	Fluid Pressure (psi)	Atomization Pressure (psi)	Fluid Nozzle	Air Nozzle
Conventional	Graco Air Pro Gun*	NA	30	35	1.4 mm (0.055")	289-784
Electrostatic	Graco Xs3 Gun*	NA	32	50	1.5 mm (0.055")	24A376
Air Assisted Airless	Graco G15 Gun & Merkur 15:1 Pump*	M409	1050	20	NA	249-596
HVLP	Graco Air Pro Gun*	NA	30	50** (inlet)	1.4 mm (0.055")	289-047
Airless	Graco Ultimate 695*	RAC X LTX-517	1700	NA	NA	NA

*or equivalent

**atomization pressure should be <10 psi

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For more information contact:

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