

AQUACRON™ MV390-9300 Series Waterborne Acrylic Primer is a low VOC primer intended for industrial use on interior/exterior metal surfaces, ABS, fiberglass, Plexiglas, and PVC plastic substrates. This primer is very fast drying and has excellent block resistance properties which makes it ideal for product finishing applications requiring a quick turnaround.

Substrates

- Cold rolled steel
- Hot rolled steel
- Galvaneal
- Aluminum
- Plastics¹
- Fiberglass¹

Suggested Topcoats

- *Aquacron 380 Series*
- *Aquacron 870 Series*
- *Aquacron 200 Series*

End Use Markets

- HDE equipment
- Industrial equipment
- Metal fabrication
- Transportation
- Agricultural equipment
- Building materials

Product Codes

- MV390-9300
- MV390C4290 Yellow
- MV390C90 Black

Product Highlights

- Excellent block resistance
- Excellent chemical and corrosion resistance
- Ready to spray
- Outstanding adhesion to a variety of substrates
- High film build capable
- Reduction and clean-up with tap water
- VOC <1.78 lbs./gal. (214 g/L)
- No reportable HAPS or heavy metals

Physical Properties

Property	Value
Solids % by weight	54.4 ± 2.0
Solids % by volume	39.0 ± 2.0
Weight / Gallon	10.9 lbs./gal. (1,308 g/L)
Coverage @ 1 mil, 100% TE	627 ft. ² /gal. (58 m ² /3.785L)
60° Gloss	10 – 30
Package viscosity	35 – 45" Zahn #3 Cup
VOC (less water)	1.78 lbs./gal. (214 g/L)
VOC (actual)	0.89 lbs./gal (107 g/L)
Shelf life	2 years

Performance Properties

Test	Result*
Pencil hardness	F – H
Conical mandrel (1/8")	Pass
Adhesion	5B
Salt Spray	250 – 1000 hours ²
Humidity	250 hours

*results obtained over iron phosphate CRS panels



AQUACRON™ 390-9300 Series

Waterborne Acrylic Primer

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 Times³

To Touch	20 – 30 min.
To Handle	1 hour
To Topcoat	2 hours

Force Dry Times

Flash Time	10 – 20 min. (ambient)
Temperature	150 – 220°F 66 – 104°C
Time at Temperature	10 – 30 min.

Footnotes

1. Due to the variability in plastic and fiberglass substrates, it's highly recommended to test adhesion on a small sample before application
2. Salt spray is 250 hours over iron phosphate cold rolled steel with a non-chrome sealer. This product can get up to 1,000 hours of salt spray if used in combination with the MV380 Series topcoats and iron phosphate pretreatment and a chrome sealer.
3. 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 8% if needed
Line/Flush Clean Up	Soap and water, TFA880-70 or MV389C

Application

Equipment	Conventional, HVLP, air-assisted airless, airless
Recommended Wet Film Build	4.0 – 10.0 mils 102 – 254 microns
Recommended Dry Film Build	1.5 – 3.5 mils 38 – 89 microns

Additional Information

In-Service Temperature: 180° (82°C)

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

Avoid exposure to rain, heavy dew and ponding water after application for 7 days cure at 60°F (16°C)

Protect from freezing

Not recommended for use on galvanized or zinc rich surfaces

