

AQUACRON™

AUTOPRIME™ W44250 Series

Water-Reducible Primer-Finish

Product Data Sheet

AQUACRON™ AUTOPRIME™ W44250 is a proprietary, low gloss, black, waterborne primer developed for fast drying, easy use in industrial applications over clean steel. Ideal applications include automotive and trailer undercarriages, drive shafts, axles, bumpers, small parts and trailers.

Substrates

- Cold rolled steel
- Hot rolled steel
- Blasted steel
- Aluminum
- Galvanized steel
- Cast iron

End Use Markets

- Automotive Underbody

Product Codes

- W44250

Product Highlights

- Excellent corrosion and chip resistance
- Dip tank capable
- Very fast drying
- VOC <0.5 lbs. /gal. (60 g/L)
- Reduction and clean-up with water
- No reportable HAPS
- Ready to spray
- Contains no heavy metals

Physical Properties

Property	Value
Solids % by weight	54.0 ± 2.0
Solids % by volume	37.5 ± 2.0
Weight / Gallon	11.0 – 11.6 lbs. /gal. (1320 – 1392 g/L)
Coverage @ 1 mil, 100% TE	597 ft. ² /gal. (55 m ² /3.785L)
60° Gloss	< 10
Package viscosity	17 – 22" Zahn #3 Cup
VOC (less water)	0.5 lbs. /gal. (60 g/L)
VOC (actual)	0.2 lbs./gal (24 g/L)
Shelf life	1 year

Performance Properties

Test	Result*
Pencil hardness	HB
Conical mandrel (1/8")	Pass
Adhesion	5B
Salt Spray	500 – 1000 hours ¹
Humidity	500 hours

*results obtained over iron phosphate CRS panels



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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 Times²

To Touch < 10 min.

To Handle 20 – 30 min.

To Topcoat Do not topcoat

Force Dry Times

Flash Time < 10 min. (ambient)

Temperature Up to 180°F (82°C)

Time at Temperature 10 – 20 min.

Mix Directions

Reduction Water, up to 8% if needed

Line/Flush Clean Up TFA880-70 or MV389C

Application

Equipment Conventional, HVLP, air-assisted airless, airless, dip tank

Recommended Wet Film Build 4.0 – 7.0 mils
102 – 178 microns

Recommended Dry Film Build 1.0 – 2.5 mils
25 – 64 microns

Additional Information

Do not use a topcoat when using W44250

In-Service Temperature: 180° (82°C)

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

W44250 dries extremely quickly and can clog guns. Frequent flushing every 15 - 30 minutes is suggested.

If the paint has dried, a Ketone (such as MIBK or other strong hydrocarbon) should be used to clean the gun followed by a butyl cellosolve and water rinse.

Protect from freezing

Not recommended for use on galvaneal or zinc rich surfaces

Footnotes:

1. Salt spray is 500 hours over CRS. This product can get up to 1,000 hours of salt spray over cast steel with <10% rust.
2. Excess film thickness will retard dry times and affect the recoat window. Do not apply at temperatures below 50°F (10°C).

The technical data presented is information believed by PPG to be currently accurate; however, no guarantee of accuracy, comprehensiveness or performance is given or implied. Continuous improvements in coating technology may cause future technical data to vary from what is in this document. Product is intended for application by trained personnel in a factory or shop application. Do not attempt to use product without the current Safety Data Sheet. The performance of a product can fluctuate due to surface preparation technique, method of application, operating conditions, the material it is applied to or with, and use. It is strongly recommended that products be tested with respect to these factors prior to full scale use.

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