



AQUACRON® 890 WATER REDUCIBLE ENAMEL – FACTORY PACK COLORS

DESCRIPTION:

AQUACRON® 890 Water Reducible Enamels are HAPs free, alkyd, high gloss finishes formulated for use on steel substrates. These products are designed to be sprayed with conventional and air assisted airless equipment and have good air-drying characteristics. They can also be applied as direct-to-metal (DTM) finishes with very good corrosion resistance.

HIGHLIGHTS:

- ❖ Quick Dry
- ❖ Low VOC & HAPs free formulations
- ❖ Can be sprayed as a DTM coating
- ❖ Economical, long lasting protection
- ❖ High hiding, factory pack colors

TECHNICAL PROPERTIES:

PROPERTY	METHOD	RESULT*
Gloss Range @ 60° Angle	ASTM D523	80 min.
Pencil Hardness	ASTM D3363	F – H
Adhesion	ASTM 3359	4B
Humidity Resistance	ASTM D2247	250 hrs.
Salt Fog Resistance	ASTM B117	250 hrs.
Substrates		CRS, HRS, Pretreated Aluminum
Recommended Primer(s)		AQUACRON:Q8135, MV390-9300, MV447-9303, MV409-90 or Direct-to-Metal (DTM)

*These results were obtained over iron phosphated CRS panels.

PHYSICAL PROPERTIES:

COLOR	COLOR REFERENCE (approximate)	PRODUCT CODE	WEIGHT SOLIDS (±3.0)	VOLUME SOLIDS (±3.0)	WT./GAL. (±0.2)	VOC LESS H ₂ O (lbs./gal.)	FLASH POINT (°F/°C)	COVERAGE (sq. ft./gal.)
Black	RAL9005	Q890BK375	33.85%	25.60%	8.42	3.20	120 / 49	411
Light Gray	T0312	Q890GY391	46.50%	28.50%	10.2	2.78	120 / 49	457
Munsell Orange	3.75YR6/14	Q890NG367	32.78%	28.95%	8.84	3.00	120 / 49	464
Safety Orange	RAL2009	Q890NG379	32.78%	28.95%	8.84	2.95	120 / 49	464
Safety Red	RAL3001	Q890RD381	37.96%	27.60%	8.53	3.00	120 / 49	443
White	RAL9016	Q890WT382	39.63%	29.95%	10.1	3.05	120 / 49	480
Safety Yellow	RAL1021	Q890YL56	45.10%	28.20%	8.76	2.43	120 / 49	452
Munsell Yellow	3.75Y8.5/12	Q890YL366	39.63%	28.95%	9.64	2.78	120 / 49	464

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SURFACE PREPARATION:

The surface must be clean and free of all contamination, clean and dry. Remove all dirt, grease, oil and foreign material including rust with wire brushes, steel wool, sand paper, scrapers or brush-off sand blast. Refer to SSPC SP-2 as a minimum and SSPC SP-6 as recommended methods. A chemical pretreatment such as PPG Chemfos® KA Cleaner Coater or similar conversion coating and/or primer will improve the performance properties of the coating system when used on cold rolled steel. See your PPG Representative for recommendations.

APPLICATION DATA:

Wet Film Thickness: 5.0 – 7.0 mils
 Dry Film Thickness: 1.4 – 2.0 mils
 Viscosity (@77°F): 28 – 32 sec. (#3 Zahn cup)
 Reducer: Up to 5% with water (if needed)
 Clean up: Soap and warm water, AquaThin Refresher (TFA880-70), MV398 Equipment Cleaner

SPRAY APPLICATION	SPRAY EQUIPMENT*	FLUID PRESSURE (psi)	ATOMIZATION PRESSURE (psi)	FLUID NOZZLE	AIR NOZZLE
Conventional	DeVilbiss MBC-510	8 - 10	35 - 50	FF	62HD
Conventional	Binks 2001 or 95	8 - 10	35 - 50	63C	63PE
Airless	Not recommended	N/A	N/A	N/A	N/A
Air Assisted Airless	Graco G-40	300 - 400	30 - 40	0.011 - 0.015"	249 - 180
Air Assisted Airless	Graco Mag A/A	300 - 400	30 - 40	0.011 - 0.015"	AA-2
HVLP	DeVilbiss – JGHV	40 - 50**	10 - 20	FF	#33A or #46 MP
HVLP	DeVilbiss – AGXV-540	40 - 50**	10 - 20	FF	#33A or #46 MP

*or equivalent

**atomization pressure should read <10 psi @ the cap

CURE SCHEDULES:

Air-dry (@ 77°F & 50% Relative Humidity)

To Touch: 30 – 45 min.
 To Handle: 1 – 3 hrs.
 To Recoat: 1 hr.

Bake / Force Cure

Flash Time: 10 – 15 min. (ambient)
 Substrate Temp: 120°F
 Bake Time: 15 – 20 min.

ADDITIONAL INFORMATION:

- ❖ Do not apply at temperatures below 50°F
- ❖ Protect from freezing
- ❖ Maximum surface temperature at application is 95°F
- ❖ Excessive film thickness will retard dry times
- ❖ Not recommended for use on galvanized, galvaneal or zinc rich surfaces
- ❖ Shelf life (unopened containers) is 9 months

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