

AQUACRON® 890 WATER REDUCIBLE ENAMEL – FACTORY PACK COLORS

DESCRIPTION:

AQUACRON® 890 Water Reducible Enamel is a HAPs free, alkyd, high gloss finish formulated for use on steel substrates. This product is designed to be sprayed with conventional and air assisted airless equipment and has good air-drying characteristics. It can also be applied as a direct-to-metal (DTM) finish with very good corrosion resistance.

HIGHLIGHTS:

- ❖ Quick Dry
- ❖ No flash point
- ❖ 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 833, 835 or Direct-to-Metal (DTM)

*These results were obtained over iron phosphated CRS panels.

PHYSICAL PROPERTIES:

COLOR	COLOR REFERENCE (approximate)	PRODUCT CODE	WT. SOLIDS (±3.0)	VOLUME SOLIDS (±3.0)	WT. / GAL. (±0.2)	VOC LESS H ₂ O (lbs. / gal.)	COVERAGE (sq. ft. / gal.)
Black	RAL9005	Q890BK375	33.85%	25.60%	8.42	3.20	411
Light Gray	T0312	Q890GY391	46.5%	28.5	10.2	2.78	457
Munsell Orange	3.75YR6/14	Q890NG367	32.78%	28.95%	8.84	3.00	464
Safety Orange	RAL2009	Q890NG379	32.78%	28.95%	8.84	2.95	464
Safety Red	RAL3001	Q890RD381	37.96%	27.60%	8.53	3.00	443
White	RAL9016	Q890WT382	39.63%	29.95%	10.1	3.05	480
Safety Yellow	RAL1021	Q890YL56	45.10%	28.20%	8.76	2.43	452
Munsell Yellow	3.75Y8.5/12	Q890YL366	39.63%	28.95%	9.64	2.78	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 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

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	.011 to .015"	249 - 180
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

*HVLP 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 use at temperatures below 50°F
- ❖ Protect from freezing
- ❖ Minimum surface temperature at application is 50°F
- ❖ Maximum surface temperature at application is 95°F
- ❖ Excessive film thickness will retard dry times
- ❖ Product is not recommended for use over galvanized or galvaneal substrates

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CONTACT 1-866-PPG TRUE

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