

SPECTRACRON® 380 POLY-IOTHANE™ HS EXTERIOR POLYURETHANE

DESCRIPTION:

SPECTRACRON® 380 Poly-Iothane™ HS is a high performing, two component high solids exterior durable polyester polyurethane enamel. It is designed to provide excellent surface protection and exterior color and gloss retention.

HIGHLIGHTS:

- ❖ Excellent exterior color and gloss retention
- ❖ Excellent mar and chemical resistance
- ❖ Low VOC at ≤3.5 lbs./gal., no reportable HAPs or SARA 313 constituents
- ❖ Can be applied directly to cleaned or blasted steel
- ❖ Contains no heavy metals
- ❖ Non-Flammable rating

TECHNICAL PROPERTIES:

PROPERTY	METHOD	RESULT*
Color		Custom Colors
Gloss @ 60° Angle	ASTM D523	85 - 95
Pencil Hardness	ASTM D3363	F
Conical Mandrel (1/8")	ASTM D522	Pass, 180°
Adhesion	ASTM D3359	5B – Excellent
Humidity Resistance – 400 Hrs. (DTM, No Primer, B-1000 panels)	ASTM D2247	No effect
Humidity Resistance – 1000 Hrs. (w/W43181A Primer)	ASTM D2247	No rust, blisters or delamination
Salt Spray Resistance - 300 Hrs. (DTM, No Primer, B-1000 panels)	ASTM B117	<3-5 mm creepage
Salt Spray Resistance – 1000 Hrs. (w/W43181A Primer)	ASTM B117	3-5 mm creepage, no blisters or delamination
12-Month Florida Exposure	ASTM D1014	>80% Retention
Substrates		HRS, CRS, Pretreated aluminum, some fiberglass & plastics**
Recommended Primer(s)		SPECTRACRON: 135, 315, 501, 531, 560, 701, W43181A, DM19147

*These results were obtained over iron phosphated CRS panels.

** Because of the variability of plastic/fiberglass substrates, coating performance should be confirmed on the actual plastic or fiberglass substrate being used.

PHYSICAL PROPERTIES:

PROPERTY	BLENDED VALUE* (5:1 with Q3501)
Weight per gallon	10.0 ± 1.0 lbs./gal.
Weight Solids (%)	69 ± 4
Volume Solids (%)	57 ± 3
Flash Points: SPECTRACRON 380	110°F (43°C)
SPECTRACRON 3501	355°F (179°C)
DM18996	102°F (39°C)
GXH1086	102°F (39°C)
VOC (less exempts)	3.5 lbs./gal.
VOE (actual)	3.5 lbs./gal.
Coverage (@ 1 mil, no loss)	770 - 834 sq. ft./gal.
Shelf Life - unopened container	4 years

*Blended values listed will be color dependent.

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SURFACE PREPARATION:

The surface must be clean and free of all contamination. 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. See your PPG Representative for recommendations.

APPLICATION DATA:

Mixing Instructions: Mix by volume. Stir thoroughly.

5 parts SPECTRACRON 380 (QT380) : 1 part SPECTRACRON 3501 (Q3501)

4 parts SPECTRACRON 380 (QT380) : 1 part GXH1086**

3 parts SPECTRACRON 380 (QT380) : 1 part DM18996**

** GXH1080 or GXH1086 are ideal to use with plural component equipment

Wet Film Thickness: 2.0 – 5.0 mils

Dry Film Thickness: 1.2 – 2.5 mils

Reducers: Fast – SPECTRATHIN® TFS309-30

Medium – SPECTRATHIN TFS309-60

Slow – SPECTRATHIN TFS309-80

Very Slow – SPECTRATHIN TFS309-90

Q70 (MAK) (to maintain Flash Point)

VOC exempt - SPECTRATHIN TFS521-50 or Q30 (acetone)

Reduction: Up to 10%, if needed

Initial Spray Viscosity: 30 – 35", #3 EZ Zahn (can vary by color)

Clean up: SPECTRATHIN TFS909 Wash Solvent, Acetone, Q60 (MEK)

Pot Life: 1 – 1.5 hours @ 77°F (25°C)

Meg Ohm Resistance: Ransburg Meter = 8 KΩ Graco Meter = 1.0 MΩ / cm. sq.

*Use of some thinners may reduce the Flash Point below 110°F, and the VOC to exceed 3.5 lbs./gal.)

SPRAY APPLICATION	SPRAY EQUIPMENT ¹	FLUID PRESSURE (psi)	ATOMIZATION PRESSURE (psi)	FLUID NOZZLE	AIR NOZZLE
Conventional	DeVilbiss MBC-510	8 - 10	45 - 55	FF	797
Conventional	Binks – 2001 or 95	8 - 10	45 - 55	63C	63PE
Airless	Graco G-40	1800 - 2400	n/a	0.011 - 0.015" ²	n/a
Air Assisted Airless	Graco G-40	900 - 1300	20 - 40	0.011 - 0.015" ²	Alpha
HVLP	DeVilbiss – JGHV	8 – 10	55 - 60 ³	FF	#46 MP

¹or equivalent

²Graco Fine Finish Tips have proven to produce a better finish for both airless & air-assisted airless

³atomization pressure should read <10 psi @ the cap

CURE SCHEDULES:

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

To Touch: 1 – 2 hrs.

To Handle: 4 hrs.

To Recoat:: 1 – 2 hrs.

Bake / Force Cure

Flash Time: 10 min. (ambient)

Substrate Temp: 180°F

Bake Time: 20 min.

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ADDITIONAL INFORMATION:

- ❖ Do not apply at temperatures below 50°F
- ❖ No minimum or critical recoat time
- ❖ 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.
- ❖ In-Service Temperature: 200° F
- ❖ Avoid moisture contamination with the B Component(s) – moisture can gel the material and affect the performance properties

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