



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. / gallon and no reportable HAPS or SARA 313 constituents
- ❖ Can be sprayed with airless, air-assisted airless and electrostatic equipment
- ❖ Can be applied directly to cleaned or blasted steel
- ❖ Contains no heavy metals
- ❖ Non-Flammable rating

TECHNICAL PROPERTIES:

PROPERTY	METHOD	RESULT
Color		Wide variety
Gloss @ 60° Angle	ASTM D523	Full
Pencil Hardness	ASTM D3363	F
Conical Mandrel	ASTM D522	Pass 180°, 1/8" Mandrel
Adhesion	ASTM D3359	5B Excellent
Humidity Resistance – Direct To Metal, No Primer	ASTM D2247	400 hours on B-1000 panels, No effect
Humidity Resistance – with W43181A Primer	ASTM D2247	1000 Hours, no rust, blisters or delamination
Salt Spray Resistance – Direct To Metal, No Primer	ASTM B117	300 hours on B-1000 panels, <3-5 mm Creepage
Salt Spray Resistance – with W43181A Primer	ASTM B117	1000 Hours, 3-5 mm Creepage, No blisters or delamination
12-Month Florida Exposure	ASTM D1014	>80% Retention
Substrates		HRS, CRS, Pretreated aluminum, some fiberglass & plastics (test adhesion to be certain)
Recommended Primers		Spectracron 501, 521, 531, 560, 571, W43181 Series

PHYSICAL PROPERTIES:

PROPERTY	BLENDED
Weight per gallon (lbs/gallon)	10.0 ± 1.0 (color dependent)
Solid % (Weight)	65 ± 4% (color dependent)
Solid % (Volume)	50 ± 2%
Flash Point	110°F (43°C)
VOC	3.5 lbs/gallon (maximum)
Coverage @1 mil-no loss	770 - 834 sq ft
Shelf Life – Each Component	12 months unopened

Do not attempt to use this product without the current Material Safety Data Sheet.
Revision Date: 2/2007



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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:

APPLICATION	BLENDED
Mixing Instructions	Mix 5:1 with Q3501 Activator or Mix 4:1 with GXH1086 (plural component systems) Activator or Mix 3:1 with DM18996 Activator
Wet Film Thickness	2.0 – 5.0 mils
Dry Film Thickness	1.2 – 2.5 mils
Thinner	Fast: TFS309-30; Medium: TFS309-60 or Q70 (to maintain Flash Point above 100°F); Slow: TFS309-80; Very Slow: TFS309-90
Reduction	10% if needed**
Clean up	TFS909 Clean Solvent
Pot Life @ 77°F	1.0 – 1.5 hours
Viscosity - Zahn #3 EZ Cup	30 - 35" (can vary by color)
Meg Ohm Resistance	Ransburg Meter = 8KΩ; Graco Meter = 1.0 MΩ / cm. sq.

**Use of some thinners may reduce the Flash Point to fall below 110°F and may cause the VOC to exceed 3.5 lbs. / gallon

SPRAY APPLICATION	SPRAY EQUIPMENT*	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	NA	.011 to .015***	NA
Air Assisted Airless	Graco G-40	900-1300	20-40	.011 to .015***	Alpha
HVLP	DeVilbiss – JGHV	8-10	55-60	FF	#46 MP

*Or Equivalent Brands **Graco Fine Finish Tips have proven to produce a better finish for both airless & air-assisted airless.

DRY TIMES	CURE SCHEDULE Air Dry @ 77°F @ 1.2 Mil DFT
Dry to touch	1-2 hours
Dry to handle	4 hours
To Recoat	1-2 hours
Force Dry	Flash 10 min. @ ambient: 20 min. @ 180°F

ADDITIONAL INFORMATION:

- ❖ For application below 50°F, please contact your technical sales/service representative
- ❖ No minimum or critical recoat time
- ❖ In-Service Temperature: 200°F (maximum)
- ❖ Avoid moisture contamination of the Spectracron Q3501 and GXH1086 and DM18996 components
Moisture can gel the material and affect performance properties
- ❖ In general, accelerators not required

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CONTACT 1-866-PPG TRUE

It is recommended that the customer should trial the product for adhesion and compatibility using all substrates, surface preparation techniques and application processes in the environment the product will be intended to be used in prior to actual product application.

The technical data presented in this bulletin is based upon information believed by PPG to be currently accurate. However, no guarantees of accuracy, comprehensiveness or performance are given or implied. Continuous improvements in coatings technology may cause future technical data to vary from what is in this bulletin.

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