



## SPECTRACRON® 370 HS DTM POLYURETHANE

### DESCRIPTION:

**SPECTRACRON 370** is a high solids, high build capable, two component urethane formulated for direct to metal (DTM) applications or it can be used over a suitable primer. The acrylic urethane resin yields superior gloss, color retention, and UV stability.

### HIGHLIGHTS:

- ❖ Superior exterior gloss and color retention
- ❖ Low VOC at  $\leq 2.8$  lbs. / gallon and no reportable HAPs
- ❖ Can be sprayed by conventional air, airless or air-assisted airless spray
- ❖ Can be applied direct to metal (DTM) over cleaned or blasted steel
- ❖ Contains no heavy metals

### TECHNICAL PROPERTIES\*:

PROPERTY	METHOD	RESULT
Color		Wide variety
Gloss @ 60° Angle	ASTM D523	85 minimum, 60° meter
Pencil Hardness	ASTM D3363	H-2H
Adhesion	ASTM D3359	5B Excellent
Impact (direct)	ASTM D2794	80 inch-pounds
Mandrel Bend	ASTM D522	1/8" – No Cracks
Chip Resistance	ASTM3170	8 Rating
Humidity Resistance 100 Hrs	ASTM D2247	Excellent with no blisters, 5B Adhesion
Salt Spray Resistance 1000 Hrs	ASTM B117	Excellent with 7A – 8A Rating
Chemical Resistance	ASTM D1308	Xylene – Slight Swell, Recovers 10% NaOH – No Effect 10% HCL – No Effect 10% H <sub>2</sub> SO <sub>4</sub> – No Effect 10% HNO <sub>3</sub> – Slight Stain Hydraulic Oil – No Effect Gasoline – Slight Swell, Recovers Diesel Fuel – No Effect Water – No Effect
QUV-UVA 60° Gloss Retention	ASTM D4587 / D523	500 hours – 98% 1000 hours – 98%
QUV-UVB 60° Gloss Retention	ASTM D4587 / D523	500 hours – 90% 1000 hours – 65%
Substrates		CRS, HRS, Aluminum, Galvanized
Recommended Primers (for ultimate performance)		Spectracron 501, 531, 560, 571, W43181 Series

\*Results obtained over blasted steel panel.



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## PHYSICAL PROPERTIES:

PROPERTY	BLENDED 5:1 with Q3501	BLENDED 4:1 with GXH1086
Weight per gallon	9.9 +/- 0.5 lbs / gallon	9.8 +/- 0.5 lbs / gallon
Solid % (Weight)	64.0 ± 3.0%	63.0 ± 3.0%
Solid % (Volume)	59.0 ± 2.0%	57.0 ± 2.0%
Flash Point	86°F (30°C)	86°F (30°C)
VOC (Ready to Spray, Unreduced)	2.65 lbs / gallon maximum	2.8 lbs / gallon maximum
Coverage	305 - 326 sq ft / gallon @ 3 mil (no loss)	294 - 315 sq ft / gallon @ 3 mil (no loss)
Shelf Life – Each Component	12 months unopened	12 months unopened

## 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 adhesion and performance properties of the coating system over cold rolled steel substrates. For best performance over structural or "hot rolled" steel, a Commercial Blast Cleaning SSPC-SP6 (NACE #3) or the use of PPG Corrosol Derust / Descalers are recommended. See your PPG Representative for recommendations.

## APPLICATION DATA:

APPLICATION	BLENDED
Mixing Instructions	Mix 5:1 with Q3501 Activator. (For lower viscosity application or plural component systems, mix 4:1 with GXH1086 Activator.) Up to 6 fluid ounces of UA-11 Accelerator can be added per mixed gallon to speed the dry times.
Wet Film Thickness	5 – 8.5 mils
Dry film Thickness	3 – 5 mils
Thinner	TFS321-50 VOC Exempt Thinner. TFS360-70 where VOC regulations allow.
Reduction	Up to 5% by volume
Initial Spray Viscosity	25 – 40" #3 EZ Zahn
Pot Life @77°F	2 – 3 Hours (1 - 2 Hours with addition of UA-11 Accelerator)
Clean-up	TFS909 Clean Solvent

SPRAY APPLICATION	SPRAY EQUIPMENT	FLUID PRESSURE (PSI)	ATOMIZATION PRESSURE (PSI)	FLUID NOZZLE	ATR NOZZLE
Conventional	DeVilbiss MBC-510 *	20 - 25	55 – 70	E or F	704 or 777
HVLP	DeVilbiss – JGHV *	20 - 25	55	1.4 – 1.8	#46MP
Airless	Graco G-40 *	1500 – 2400	NA	0.013 – 0.017"	NA
Air Assisted Airless	Graco G-40	900-1300	20-40	.011 - .015	Alpha

\*Or Equivalent Brands



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## CURE SCHEDULE:

DRY TIMES	BLENDED 5:1 with Q3501 –OR- 4:1 with GXH1086	WITH ADDITION OF 6oz. / MIXED GALLON UA-11 ACCELERATOR
Tack Free	2 – 3 Hours	1 – 1.5 Hours
Dry to Touch	3 – 4 Hours	1.5 – 2 Hours
Dry to Handle	8 – 12 Hours	2 – 4 Hours
Dry to Recoat	When dry through, approx. 24 hours; Maximum 7 days without abrading	When dry through, approx. 12 hours; Maximum 7 days without abrading
To Cure	Allow 7 days for full and complete cure of film	

## ADDITIONAL INFORMATION:

- ❖ After 7 days, mechanically abrade the surface before recoating
- ❖ For application below 50° F, please contact your technical sales / service representative
- ❖ In-Service Temperature: 200° F (maximum)
- ❖ Avoid moisture contamination of the Spectracron Q3501 and GXH1086 components. Moisture can gel the material and affect performance properties.

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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.

