



DTM Polyurethane

AUE-370

AUE-370 is a surface tolerant, high solid, high build, two component acrylic urethane formulated for direct-to-metal applications. The product is easy to mix and apply for airless or air-assisted spray applications.

This product is compliant for applications in areas with VOC requirements of less than 2.8 lbs/gal (340 g/l).

Features and benefits:

- Apply direct-to-metal
- Airless or Air-assisted application capable
- 2.8 VOC capable

Associated Products:

- AUE-3501, 2K High Solids Urethane Hardener
- GXH-1086, Urethane Hardener
- UA-11, Urethane Accelerator

Physical Constants*:

	With AUE-3501	With GXH1086
Weight per gallon (US)	9.43 - 10.50 lbs/gal	9.33 - 10.35 lbs/gal
Percent solids (by weight)	61.0 - 68.2%	59.5 - 66.7
Percent solids (by volume)	57.0 - 61.3%	55 - 59.1%
Flashpoint	86°F (30°C) – AUE-370	86°F (30°C) – AUE-370
VOC	2.25 - 2.65 lbs/gal (RTS, unreduced)	2.44 - 2.8 lbs/gal (RTS, unreduced)
HAPs	<0.1 lb/gal (RTS, unreduced)	<0.1 lb/gal (RTS, unreduced)
Photo-chemically reactive	Non-Photochemically Reactive	Non-Photochemically Reactive

*Constants vary from color to color

Directions for Use:

Substrate Preparation:

The surface to be coated must be free of all contamination (including moisture, dust, dirt, oil, grease, and oxidation). Substrate preparation has a direct relationship to the performance of a coating.

SSPC-SP15 Commercial Grade Power Tool Cleaning is minimum preparation, this includes but is not limited to a 1.0 mil blast profile minimum.

Commercial Blast Cleaning is recommended (SSPC-SP6, NACE #3) to maximize adhesion and performance properties of the finished coat.

Variability can occur with substrates, preparation, application method or environment. We recommend that adhesion and system compatibility be checked prior to full application.

Metal	Direct to Substrate
Cold Rolled Steel	Recommended
Hot Rolled Steel	Recommended
Galvaneal	Recommended
Galvanized	Recommended
Aluminum	Recommended
Plastic / Fiberglass	Not Recommended.

Note: For acceptable compatibility between this topcoat and CPC primers please see the CPC Primer/Topcoat compatibility chart (CPCTB01).



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Directions for Use (continued)

Mix Directions:



Mix Directions Stir thoroughly before and occasionally during use.
 Mix component "A" AUE-370 Color thoroughly before blending. Once component "B" is added, product must be adequately mixed prior to use. A mechanical mixer is recommended. UA-11 may be added, if desired, up to 6 oz / RTS GAL.
Use with adequate ventilation. Keep out of reach of children.

Thinning: Up to 10% Q70 (MAK) can be added to RTS AUE-370 where VOC regulations allow. Thinning in this manner will not exceed 3.5 VOC as applied.



Blend Ratio: <i>w/AUE-3501:</i>	Without UA-11		With UA-11		
	AUE-370	AUE-3501	AUE-370	AUE-3501	+ UA-11
	5	1	5	1	6oz. / RTS Gal



Pot Life @ 77°F: 2 – 3 hours 1 – 2 hours

Spray Viscosity Range: 30 – 40 sec. #3 EZ Zahn 20 – 30 sec. #3 Zahn EZ



Blend Ratio: <i>w/GXH-1086:</i>	Without UA-11		With UA-11		
	AUE-370	GXH-1086	AUE-370	GXH-1086	+ UA-11
	4	1	4	1	6oz. / RTS Gal



Pot Life @ 77°F: 2 – 3 hours 1 – 2 hours

Spray Viscosity Range: 25 – 35 sec. #3 Zahn EZ 20 – 30 sec. #3 Zahn EZ

Application Equipment:



Conventional: 1.6 - 2.0 mm fluid tip, 50 - 65 psi
 Conventional on Pressure Pot: 1.3 - 1.8 mm fluid tip, 12 - 20 ounces per minute fluid
 HVLP: 1.4 - 1.8 mm fluid tip, maximum psi per gun MFG settings
 HVLP on Pressure Pot: 1.3 - 1.8 mm fluid tip, 12 - 20 ounces per minute fluid
 Airless: .013 - .017 fluid tip, 2000 psi and up fluid pressure
 Air-Assisted Airless: .013 - .017 fluid tip, begin at 1400 psi fluid & minimum required air pressure to remove tails from pattern
 Brush or Roll: High Quality Natural Bristle Brush
 High Quality 3/8" nap roller cover with a solvent resistant core
 Electrostatic: Information above incorporated with gun MFG settings

Application:



Apply: 1 – 2 coats
 Recommended Wet Film Build: 5.0 – 8.5 mils
 Recommended Dry Film Build: 3.0 – 5.0 mils
 Coverage (varies by color): 915 – 982 sq. ft. at 1.0 mil dry film per U.S. gallon

Dry Times:



Air Dry @ 77°F 50% RH:	Without UA-11	With UA-11
To Texture	3 – 5 hours	1 – 2 hours
To Handle	8 – 12 hours	2 – 4 hours
Recoat	Min, When Dry Through Max. 7 days	Min, When Dry Through Max. 7 days

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.

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Technical Data*

Performance Properties:

Test	ASTM Method	Without UA-11	With UA-11
Pencil Hardness	ASTM D3363	H-2H	H-2H
Impact (direct)	ASTM D2794	80"lbs	80"lbs
Mandrel	ASTM D522	1/8" No Cracks	1/8" No Cracks
Chip Resistance	ASTM 3170	8	8
Gloss - 60°	ASTM D523	85 - 92	85 - 92
Adhesion	ASTM D3359 Method B	5B	5B

Chemical Resistance:

Chemical ASTM D1308	Without UA-11	With UA-11
Xylene	Slight Swell - recovers	Slight Swell - recovers
10% NaOH (Sodium Hydroxide)	No Effect	No Effect
10% HCl (Hydrochloric acid)	No Effect	No Effect
10% H ₂ SO ₄ (Sulphuric acid)	No Effect	No Effect
10% HNO ₃	Slight Stain	Slight Stain
Hydraulic Oil	No Effect	No Effect
Gasoline	Slight Swell - recovers	Slight Swell - recovers
Diesel Fuel	No Effect	No Effect
Water	No Effect	No Effect

Weather Resistance:

	ASTM Method	Without UA-11	With UA-11
Salt Spray – 1000 hours	B117		
Corrosion Creep	D1654	7A - 8A	7A - 8A
Face Blisters	D714	None	None
Adhesion	D3359 Method A	10A	10A
Humidity – 100 hours	D2247		
5 Minute Recovery Adhesion	D3359 Method B	5B	5B
1 Hour Recovery Adhesion	D3359 Method B	5B	5B
24 Hour Recovery Adhesion	D3359 Method B	5B	5B
QUV-UVA: 60° angle	D4587		
500 hour retention	D523	98%	98%
1000 hour retention	D523	98%	98%
QUV-UVB: 60° angle	D4587		
500 hour retention	D523	90%	90%
1000 hour retention	D523	65%	65%

All tests results assume proper cure and preparation of test substrates. Unless otherwise stated, all results were obtained spraying product direct to metal on HRS with Commercial Blast Cleaning (SSPC SP6), and product color is black. QUV tests were performed over B1000 steel.

* The application and performance property data above are believed to be reliable based on laboratory findings. It is for the buyer to satisfy itself on the suitability of the product for its particular use. Variation in environment, procedures of use, or extrapolation of data may cause unsatisfactory results.

Safety:

These materials are designed for application only by professional, trained personnel, using proper equipment under controlled conditions and are not intended for sale to the general public.

Safe application of paints and coatings requires knowledge of equipment materials and individual training. Directions and precautionary information on both equipment and products should be carefully read and strictly observed for personal safety and property protection. Consideration must be given to eliminate conditions, which may generate hazardous atmospheres during spray application or subject operators or bystanders to injury or illness.

Special precautions must be taken when utilizing spray equipment, particularly airless equipment. High-pressure injection of coatings into the skin by airless equipment may cause serious injury requiring immediate medical attention at a hospital. Treatment advice may also be obtained from Poison Centers.

Air quality should be maintained with adequate ventilation; applicators can achieve additional protection by wearing respirators and other protective garments such as gloves and overalls. In all cases, wear protective eye equipment. During the application of all coatings materials, all flames, welding and smoking must be prohibited. Explosion proof equipment must be used when coating these materials in confined areas.

PRECAUTIONARY INFORMATION

Before using the products listed herein, carefully read each product label and follow directions for its use. Please read and observe all warnings and precautionary information on all product labels. Prevent all contact with skin and eyes and breathing of vapors and spray mist. Repeated inhalation of high vapor concentrations may cause a series of progressive effects including irritation of the respiratory system, permanent brain and nervous system damage and possible unconsciousness and death in poorly ventilated areas. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

KEEP OUT OF THE REACH OF CHILDREN

MEDICAL RESPONSE

Emergency Medical or Spill Control Information (412) 434-4515; CANADA (514) 645-1320
Have label information available.



Material Safety Data Sheets for the PPG products mentioned in this publication are available through your PPG Distributor.

For additional information regarding this product, see the MSDS AND LABEL information.

PPG Industries

Commercial Coatings

We're Everywhere You Look

PPG Industries
19699 Progress Drive
Strongsville, OH 44149
1-800-647-6050

PPG Canada Inc.
2301 Royal Windsor Drive
Mississauga, Ontario L5J 1K5
1-888-310-4762