



Acrylic Urethane Enamel

AUE-100/AUE-101

CPC 4

Component A AUE-100 Acrylic Urethane Enamel		Component B AUE-101 Catalyst For AUE-100	
RECOMMENDED USE		CHEMICAL/SOLVENT RESISTANCE	
AUE-100 Acrylic Urethane Enamel is recommended for interior and exterior use on properly prepared and/or primed steel, aluminum and other firm surfaces where excellent chemical resistance, color and gloss retention are required.		10% Sulfuric Acid : Very Good	
AUE-100 Acrylic Urethane Enamel provides a wide balance of performance properties, including excellent flow and leveling, film hardness and good exterior durability.		10% Ammonia : Excellent	
		Xylene : Very Good	
		Oil : Excellent	
		500 Hours Salt Spray : Excellent	
		10% Hydrochloric Acid : Excellent	
		10% Sodium Hydroxide : Excellent	
		Isopropyl Alcohol : Excellent	
		Gasoline : Very Good	
COLORS		SURFACE PREPARATION	
Virtually any new or existing color standard can be quickly and precisely matched using PPG's COLOR ACCURATE™ instrument matching and dispensing system. Once formulated, batches as small as one gallon can be reproduced time after time without the color drift problems associated with manual small batch methods. All colors supplied from the COLOR ACCURATE™ system will be formulated to meet Federal standards concerning the amount of lead in the dried film.		The surface to be coated must be sanded, free of all contamination, including dust, dirt, oil, grease and oxidation. Chemical treatment or the use of a conversion coating will improve the adhesion and performance properties of the finished coat.	
PHYSICAL CONSTANTS		Cold Rolled Steel	CRE-9XX, EPX-900, HSP-2128, HSP-900/902, PLC-900, VAP-9XX : Excellent
Mixed Voc (Varies by color)	4.4 - 4.9 lbs/gal	Hot Rolled Steel	CRE-9XX, EPX-900, HSP-2128, HSP-900/902, PLC-900, VAP-9XX : Excellent
Percent Solids By Weight (Mixed)	41.3% - 58.0%	Galvanized	CRE-9XX, EPX-900, HSP-2128, HSP-900/902, PLC-900 : Fair-Good
Percent Solids By Volume (Varies By Color)	35.6% - 42.1%	Galvaneal	CRE-9XX, EPX-900, HSP-2128, HSP-900/902, PLC-900 : Fair-Good
Weight Per U.S. Gallon (Varies By Color)	8.3 - 10.4 lbs/gal	Aluminum	CRE-9XX, EPX-900, HSP-2128, HSP-900/902, PLC-900, VAP-9XX : Good
Flash Points (Pensky-Martens)		Plastic / Fiberglass	Surface should be free of all contamination. Because of the variability of plastic/fiberglass substrates, coating performance should be confirmed on the actual plastic/fiberglass substrate being used.
AUE-100	75°F (24°C)		
AUE-101	87°F (31°C)		
Ready To Spray Viscosity (Varies By Color)	#3 Zahn = 25 - 35 secs. #2 Zahn = N/A		
PERFORMANCE FEATURES			
Pencil Hardness (Varies By Color)	H-2H		
Flexibility (Conical Mandrel)	Pass		
Adhesion	Excellent		
96 Hour Humidity Resistance	Excellent		
In Service Temperature Limitations	300°F		
<i>Note: As you approach 300°F, depending on the pigmentation, the color may change, but film integrity will be maintained until 300°F.</i>			
Sheen	AUE-100 enamel is supplied as a gloss finish (80-90%) on a 60° gloss meter. (PPG distributors can adjust to semi-gloss)		
Fade Resistance	Exposure studies confirm that the fade resistance of the AUE-100 finish is significantly better than that of most interior/exterior acrylic urethane enamels.		
Water Resistance	Although resistant to intermittent exposure, not recommended for immersion.		

APPLICATION DATA	SAFETY																
<p>Mixing Directions Stir thoroughly before and occasionally during use. To each pigmented gallon of AUE-100 component A (7 pints), add the entire contents of 1 pint of AUE-101, component B (clear curing agent). Mix ratio is 7 parts component A to one part component B by volume. Each 5-gallon container of AUE-100, component A, will require the addition of 2 quarts of AUE-101, component B, resulting in a 4-gallon material mix in a 5-gallon container. Agitate thoroughly and allow it to digest 15 minutes before using.</p> <p>Mixing ratio is 7:1. Stir thoroughly before using.</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">AUE-100</td> <td style="text-align: center;">:</td> <td style="text-align: center;">AUE-101</td> </tr> <tr> <td style="text-align: center;">7</td> <td style="text-align: center;">:</td> <td style="text-align: center;">1</td> </tr> </table>	AUE-100	:	AUE-101	7	:	1	<p>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.</p>										
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<p>Note: Moisture contamination in components can result in poor properties of applied films or gelling of the material. Do not open until ready to use.</p>	<p>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</p>																
<p>Thinning Can be thinned up to 20% with PPG Urethane grade thinner or equivalent. NOTE: Lacquer thinners and alcohol containing solvent blends should not be used.</p>	<p>MEDICAL RESPONSE Emergency Medical or Spill Control Information (412) 434-4515; CANADA (514) 645 - 1320 Have label information available.</p>																
<p>Pot life 77°F (25°C) 5 hours after mixing</p>	<p>MATERIAL SAFETY DATA SHEET 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. To the best of our knowledge, the technical information in this bulletin is accurate; however, since PPG Industries, Inc. is constantly improving its coatings and paint formulas, the current technical data may vary somewhat from what was available when this bulletin was printed. Contact your PPG Distributor for the most up-to-date information.</p>																
<p>Application Equipment Conventional spray: 40 – 50 psi at the gun.</p> <p>Drying Times* (3 mils wet @ 77°F / 25°C and 50% relative humidity)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 150px;">To Touch:</td> <td>30 – 60 minutes</td> </tr> <tr> <td>To Handle:</td> <td>4 hours**</td> </tr> <tr> <td>To Dry:</td> <td>10 hours***</td> </tr> <tr> <td>Recoat:</td> <td>4 hours to 4 days</td> </tr> <tr> <td></td> <td>15 minutes @ 160°F</td> </tr> <tr> <td></td> <td>20 minutes @ 140°F</td> </tr> <tr> <td>Force Dry:</td> <td>30 minutes @ 120°F</td> </tr> <tr> <td></td> <td>(Allow 10 minutes air dry)</td> </tr> </table>	To Touch:	30 – 60 minutes	To Handle:	4 hours**	To Dry:	10 hours***	Recoat:	4 hours to 4 days		15 minutes @ 160°F		20 minutes @ 140°F	Force Dry:	30 minutes @ 120°F		(Allow 10 minutes air dry)	
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<p>*Drying time may be accelerated with up to 6oz of UA-11 per gallon. ** This condition does not mean that the paint film has reached full cure. It is a stage where handling can be achieved without loosening, wrinkling or otherwise marring the film under minimal pressure from fingers or hands. Drying time listed may vary, depending upon film build, color selection, temperature, humidity and degree of air movement. *** Paint film is not fully cured for 7 days</p>																	
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<p>Recommended Spreading Rate 402 500 sq. Ft. At 1.0 mil dry film per U.S. gallon (varies by color). Coverage figures do not include losses due to mixing, transfer or application of coating or losses due to surface irregularities or porosity.</p>																	
<p>Clean Up PPG Urethane Thinner, MEK or xylene.</p>																	
<p>Application Precautions and Limitations Apply only when air, product or surface temperature is above 60°F (16°C) and when surface temperature is at least 5°F (3°C) above the dew point. Brush and roller application is not recommended.</p>																	

