AUE-360 Series
2K High Solids Urethane

Product data sheet

AUE-360 Series High Solids Polyurethanes offfer excellent exterior durability, mar, chemical and UV resistance when catalyzed with AUE-3501, GXH1080, or GXH1086. When catalyzed with AUE-3606A, AUE-360 is recommended for interior use only.

AUE-360 Series can achieve high film build with one pass coverage. AUE-360 can be combined with AUE-360LG to achieve intermediate gloss levels.

Product highlights

- Excellent color and gloss retention
- Excellent chemical and mar resistance
- Intermixable high and low gloss resins
- Available in a wide range of colors
- No reportable HAPS

Associated product codes

- AUE-360: 2K High Solids Urethane
- AUE-360LG: 2K High Solids Urethane Low Gloss
- AUE-360WHT: 2K High Solids Urethane White
- AUE-360YL: 2K High Solids Urethane Yellow
- AUE-3501, GXH1080, GXH1086: Urethane Hardener
- AUE-3606A: Interior Urethane Hardener

Physical constants[1]	AUE-360 Series w/AUE-3501	AUE-360 Series w/ GXH1080 or GXH1086	AUE-360 Series w/AUE-3606A (interior use only)
Solids % by weight	70.1 ± 6.2	67.6 ± 6.8	64.5 ± 6.7
Solids % by volume	60.8 ± 3.5	58.6 ± 3.4	53.7 ± 4.5
HAPs	<0.1 lbs./gal. (<12 g/L)	<0.1 lbs./gal. (<12 g/L)	<0.1 lbs./gal. (<12 g/L)
Photo-chemically reactive	No	No	No
Weight/Gallon	8.7 - 11.0 lbs. /gal. (1044 – 1320 g/L)	8.6 – 10.9 lbs. /gal. (1032 – 1308 g/L)	8.7 – 11.5 lbs. /gal. (1044 – 1380 g/L)
VOC Max (less exempts)	3.5 lbs./gal. (420 g/L)	3.5 lbs./gal. (420 g/L)	4.0 lbs./gal. (480 g/L)
VOC Max (actual)	3.5 lbs./gal. (420 g/L)	3.5 lbs./gal. (420 g/L)	4.0 lbs./gal. (480 g/L)

Directions for use

Substrate preparation

The surface to be coated must be sanded and free of all contamination (including dust, dirt, oil, grease, and oxidation). Chemical treatment and the use of a conversion coating will improve the performance properties of the coating system. We recommend that adhesion and system compatibility be checked prior to full application.

Substrate	Application Recommendations: Direct to Properly Prepared Substrate
Cold Rolled Steel	No direct to metal application. Refer to CPCTB01 for approved primers
Hot Rolled Steel	No direct to metal application. Refer to CPCTB01 for approved primers
Galvaneal	No direct to metal application. Refer to CPCTB01 for approved primers
Galvanized	No direct to metal application. Refer to CPCTB01 for approved primers
Aluminum	No direct to metal application. Refer to CPCTB01 for approved primers
Plastic/Fiberglass	No direct to metal application. Refer to CPCTB01 for approved primers

1 All values are theoretical, depend on color and are ready to spray. Actual values could vary slightly due to manufacturing variability. Constants vary from color to color.

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Directions for use (continued)

Mix directions

Mix Directions	Stir thoroughly before and occasionally during use Mixed product not intended for immediate use should be kept in a lined container
Thinning	Up to 10% Q30 or Q93 in VOC compliant areas Up to 10% Q50, Q60, Q70, TFS Blends in non-VOC complaint areas
Line/Flush Clean Up	TFS309, Q60 or Q30

	AUE-360 Series w/AUE-3501	AUE-360 Series w/GXH1080 or GXH1086	AUE-360 Series w/AUE-3606A (interior use only)
Blend Ratio High Gloss	5:1	4:1	3:1
Blend Ratio < 70 Gloss	6:1	5:1	4:1
Pot Life	2 - 3 Hours	1 - 2 Hours	2 - 3 Hours

Application equipment*

	Application	Application Viscosity
Conventional Cup Gun	1.4 – 1.8 mm needle/nozzle w/40 – 50 psi at the gun	20 - 30" #2 EZ Zahn
Conventional Pressure Pot	1.4 – 1.8 mm needle/nozzle w/40 – 50 psi at the gun 20 - 25 psi fluid pressure	25 - 40" #2 EZ Zahn
HVLP (with or without pressure pot)	1.4 – 1.8 mm needle/nozzle with 10 psi at the cap	20 - 30" #2 EZ Zahn
Airless	Not Recommended	
Air-Assisted Airless	Not Recommended	
Brush or Roll	Not Recommended	
Electrostatic	1.4 - 1.8 mm needle/nozzle w/40 – 50 psi at the gun	20 - 30" #2 EZ Zahn

*For additional application information, refer to product application guide

Application

	AUE-360 Series w/AUE-3501 or AUE-3606A	AUE-360 Series w/GXH1080 or GXH1086
Apply	1-2 Coats with 10-15 min flash	1-2 Coats with 10-15 min flash
Recommended Wet Film Build	2.5 - 4.5 mils (64 - 114 microns)	2.5 - 4.2 mils (64 - 107 microns)
Recommended Dry Film Build	1.5 - 2.5 mils (38 - 64 microns)	1.3 - 2.5 mils (33 - 64 microns)
Coverage (at 1 mil no loss)	919 - 1031 sq. ft/gal (85 - 96 meters sq./3.785L)	866 - 992 sq. ft/gal (80 - 92 meters sq./3.785L)

Dry times

	AUE-360 Series w/AUE-3501, GXH1080 or GXH1086	AUE-360 Series w/AUE-3606A
Air Dry @77°F (25°C) 50% RH*		
To Touch	1 -2 hours	0.5 - 1 hour
To Handle	4 hours*	1 - 2 hours*
To Recoat	1 hour to 24 hours[2]	1 hour to 4 days[2]
Force Dry	10 minutes air dry, bake 20 @ 180°F (82°C)	10 minutes air dry, bake 20 @ 180°F (82°C)

*Paint film is not fully cured for 7 days. Drying time may vary, depending on film build, color selection, temperature, humidity, and degree of air movement

2 After 24 hours (or 4 days w/AUE-3606A), the topcoat must be abraded prior to recoating.

Technical data[3]

Performance properties

Test	ASTM Method	AUE-360 Series w/ AUE-3501, GXH1080, or GXH1086	AUE-360 Series w/ AUE-3606A (interior use only)
Pencil Hardness	D3363	F	F
Gravelometer	D3170	8 - 9	7
Gloss @ 60°	D523	20 - 90	20 - 90
Adhesion	D3359	5B	5B
Conical Mandrel	D522	Pass	Pass
In Service Temperature Limit[4]	–	300°F (149°C)	300°F (149°C)

Chemical Resistance

Test	ASTM Method	AUE-360 Series w/ AUE-3501, GXH1080, or GXH1086	AUE-360 Series w/ AUE-3606A (interior use only)
Toluene	D1308	Slight Ring	Slight Ring, Gloss Loss
10% NaOH (Sodium Hydroxide)	D1308	Pass	Blisters
10% HCl (Hydrochloric acid)	D1308	Pass	Pass
10% H2SO4	D1308	Pass	Pass
Gasoline	D1308	Mild Ring, Lift, Yellowing	Mild Ring, Lift, Yellowing
Isopropyl Alcohol	D1308	Slight Ring	Slight Ring
Water[5]	D1308	Pass	Pass

Weather resistance

Test	ASTM Method	AUE-360 Series w/ AUE-3501, GXH1080, or GXH1086	AUE-360 Series w/ AUE-3606A (interior use only)
Salt Spray With W43181A Primer	**B117**	1,000 hours	300 hours
Corrosion Creep	D1654	5A	3A
Scribe Blisters	D714	4F	6M
Face Blisters	D714	8D	8D
Humidity 100 hours With W43181A Primer	**D2247**		
5 Minute Adhesion Recovery	D3359	5B	No rusting, 8F Blisters
1 Hour Adhesion Recovery	D3359	5B	No rusting, 8F Blisters
24 Hour Adhesion Recovery	D3359	5B	No rusting, 8F Blisters
QUV-B: 60° angle With W43181A Primer	**D4587**		
200 hour gloss retention	D523	93%	Not recommended for exterior
500 hour gloss retention	D523	85%	Not recommended for exterior

3 The application and performance property data above is 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 may cause unsatisfactory results. All test results assume proper cure and preparation of test substrates. Unless otherwise stated, all results were obtained spraying product direct to metal on BONDERITE® 1000.

4 As you approach 150° F depending on the pigmentation, the color may change, but the film integrity will be maintained up to 300°F.

5 Although resistant to intermittent exposure, not recommended for immersion.

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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 operations 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 coating 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 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: US (412) 434-4515; Canada (514) 645-1320; and Mexico 01-800-00-21-400. Please have label information available.

Safety Data Sheets (SDS) for the PPG products mentioned in this publication are available through versolon.com (Safety, SDS Search) or through your PPG store or distributor. For additional information regarding this product, see the SDS and label information.