Commercial Performance Coatings

CPCPB476

## OEM Clearcoat

# AUE-40

AUE-40 is a high build, high gloss clearcoat that is easy-to-spray. It offers excellent adhesion and sag resistance properties while also providing superior durability and UV resistance.

AUE-40 is designed for use over the AUE-300, AUE-360 and AUE-370 topcoats.

### Features and Benefits:

- Excellent adhesion and sag resistance
- High gloss and DOI
- Superior durability and UV protection

### Associated Products:

- AUE-40 OEM Clearcoat
- GXH1086 Urethane Hardener
- UA-11 Urethane Accelerator

### Physical Constants:

*All values are theoretical, depend on color and are Ready-to-Spray. Actual values could vary slightly due to manufacturing variability.*

| | AUE-40 alone | AUE-40 / GXH1086 | AUE-40 / GXH1086 + optional 2 oz UA-11 |
|---|---|---|---|
| Weight per gallon (US) | 8.16 lbs/gal | 8.37 lbs/gal | 8.37 lbs/gal |
| Percent solids (by weight) | 44.0% | 53.2% | 52.4% |
| Percent solids (by volume) | 39.5% | 47.9% | 47.1% |
| VOC less water (less exempts) | 474 g/L<br>3.96 lbs/gal | 403 g/L<br>3.36 lbs/gal | 413 g/L<br>3.45 lbs/gal |
| HAPs | ≤1.5 lbs/gal | ≤1.2 lbs/gal | ≤1.2 lbs/gal |
| Photo-chemically reactive | Yes | Yes | Yes |

Flashpoint
AUE-40 = 40°F (4°C), GXH1086 = 102°F (39°C), UA-11 = 96°F (36°C)

### Directions for Use:

**Substrate Preparation:**

The surface to be coated should be free of all contamination (including dust, dirt, oil, grease and oxidation). Please use an appropriate PPG cleaner/degreaser per local environmental regulations.



PPG

# AUE-40

## Directions for Use (continued)

**Mix Directions:**

Mix Directions: Extra agitation is not necessary prior to adding hardener

Thinning: Additional thinning is not recommended

Blend Ratio:

| AUE-40 | : | GXH1086 | : | UA-11 |
|---|---|---|---|---|
| 4 | | 1 | | 2 oz./RTS gal. optional |


Pot Life @ 77°F (25°C): 2.5 – 3.5 hours

Spray Viscosity Range: #2 EZ Zahn - 23 seconds

Shelf Life: (each component) AUE-40: 4 years unopened, 1 year opened
GXH1086: 2 years unopened, 14 days opened

**Application Equipment:**

Conventional/Compliant (with or without pressure pot): 1.2 – 1.6 mm needle/nozzle with 45 – 55 psi at the gun

HVLP (with or without Pressure Pot): 1.2 – 1.5 mm needle/nozzle with 10 psi at the cap or per manufacturer

Airless: .011 – .015 fluid nozzle, 2100 – 2400 psi fluid pressure

Air-Assisted Airless: No Recommendation

Brush or Roll: No Recommendation

Electrostatic: No Recommendation

**Application:**

Apply: Allow color to dry a minimum of 1 hour prior to clearcoating
Apply one medium cross-coat of AUE-40 clearcoat
Maximum dry time of color before clearcoating*

- AUE-300 = 4 days
- AUE-360 = 1 day
- AUE-370 – 7 days

*After maximum dry time, color must be sanded prior to clearcoat application

Recommended Wet Film Build: 2.5 mils minimum

Recommended Dry Film Build: 1.5 mils minimum

Coverage: 756 sq. ft. @ 1.0 mil dry film per U.S. gallon

**Dry Times:**

Air Dry @ 77°F (25°C) 50% RH:

| | AUE-40 : GXH1086 |
|---|---|
| Dust-Free: | 2 Hours |
| Handle: | 6 Hours |
| Tape: | 8 Hours |
| Recoat: | 60 minutes to 3 days |
| Force Dry @ 140°F (60°C) | 30 minutes after 15 minute flash |

# AUE-40

## Technical Data*

**Performance Properties:**

*DA 180 sanded CRS*
*ZNP-200*
*CRE-321*
*AUE-300 or 360 or 370*
*AUE-40*

| Test | ASTM Method | AUE-40 |
|---|---|---|
| Pencil Hardness | D3363 | HB/B |
| Mandrel | D522 | Minor Cracking |
| Chip Resistance | D3170 | 7 |
| Gloss - 60° | D523 | 100 |
| Adhesion | D3359 | 5B |
| In Service Temperature Limit | | 300°F (149°C) |

**Chemical Resistance:**

*Blasted HRS*
*ZNP-200*
*CRE-321*
*AUE-300 or 360 or 370*
*AUE-40*

| Chemical ASTM D1308 | AUE-40 |
|---|---|
| 10% NaOH (Sodium Hydroxide) | Pass |
| Skydrol | Mild blistering and slight ring |
| Gasoline | Mild ring |
| 10% $H_2SO_4$ (Sulphuric acid) | Pass |
| Antifreeze | Pass |
| Jet Fuel A | Pass |

**Weather Resistance:**

*Blasted HRS*
*ZNP-200*
*CRE-321*
*AUE-300 or 360 or 370*
*AUE-40*

| | ASTM Method | AUE-40 |
|---|---|---|
| **Salt Spray – 1000 hours** | B117 | |
| Corrosion Creep | B117 | 10A |
| Face Blisters | D1654 | None |
| Edge Blisters | D714 | None |
| Scribe Blisters | D714 | None |
| **Humidity – 100 hours** | D2247 | |
| 5 Minute Recovery Adhesion | D3359 Method B | 5B |
| 1 Hour Recovery Adhesion | D3359 Method B | 5B |
| 24 Hour Recovery Adhesion | D3359 Method B | 5B |
| **QUV-UVA: 60° angle** | D4587 | |
| 250 hour retention | D523 | 100% |
| 500 hour retention | D523 | 100% |
| **QUV-UVB: 60° angle** | D4587 | |
| 250 hour retention | D523 | 100% |
| 500 hour retention | D523 | 100% |

All tests results assume proper cure and preparation of test substrates.

* 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.

# AUE-40

**OEM Clearcoat**

**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 and in MÉXICO 01-800-00-21-400. Have label information available.

**Safety Data Sheets (SDS) for the PPG products mentioned in this publication are available through www.ppgcommercialcoatings.com (Safety, SDS Search) or your PPG Distributor.**

For additional information regarding this product, see the SDS and LABEL information.

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