



Commercial Performance Coatings

ACR-100

CPC 1

Acrylic Lacquer

PRODUCT DESCRIPTION			
ACR-100 ACRYLIC LACQUER (Pigmented)			
TYPE: Acrylic Lacquer			
RECOMMENDED USE ACR-100 Acrylic Lacquer is a fast drying coating specifically recommended for interior and exterior use on properly prepared primed metal, or plastic. ACR-100 lacquer offers superior color and gloss retention properties and excellent adhesion over a wide variety of plastics. ACR-100 Acrylic Lacquer provides a wide balance of performance properties, including excellent flow and leveling, film hardness and good exterior durability.			
COLORS 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.			
PHYSICAL CONSTANTS			
WEIGHT PER U.S. GALLON (varies by color) 7.65 - 9.93 lbs/gal		FLASH POINTS Pensky-Martens 27°F (-3°C)	
PERCENT SOLIDS BY WEIGHT (MIXED) (varies by color) 30.6% - 50.5%		VOC (MIXED) 4.92 - 5.31 lbs/gal (varies by color) Does not include reducer	
PERCENT SOLIDS BY VOLUME (MIXED) (varies by color) 24.3% - 30.6%			
READY TO SPRAY VISCOSITY (varies by color) #3 Zahn N/A #2 Zahn 15-20 seconds			
PERFORMANCE FEATURES			
PENCIL HARDNESS 3 H (varies by color)		ADHESION Good	
FLEXIBILITY (Conical mandrel) Fair		IN SERVICE TEMPERATURE LIMITATIONS 180°F Note: As you approach 180°F, depending on the pigmentation, the color may change, but film integrity will be maintained until 180°F.	
FADE RESISTANCE Exposure studies confirm that the fade resistance of the ACR-100 finish is significantly better than that of most interior/exterior acrylic lacquers.			
96 HOUR HUMIDITY RESISTANCE Excellent			
CHEMICAL/SOLVENT RESISTANCE			
10% SULFURIC ACID	Poor	10% HYDROCHLORIC ACID	Poor
10% AMMONIA	Poor	10% SODIUM HYDROXIDE	Poor
XYLENE	Fair	ISOPROPYL ALCOHOL	Good
OIL	Good	GASOLINE	Fair
500 HOURS SALT SPRAY	Fair		
WATER RESISTANCE: Resistant to intermittent exposure. Not recommended for immersion			



SURFACE PREPARATION

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.

Metal	Recommended Primers	Direct To Properly Treated Substrate
Cold Rolled Steel	EPX-900, VAP-9XX	Good
Hot Rolled Steel	EPX-900, VAP-9XX	Good
Galvanized	EPX-900	Good
Galvaneal	EPX-900	Good
Aluminum	EPX-900, VAP-9XX	Fair
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. Surface contamination of the plastic/fiberglass, even though it may be invisible, can cause paint failure due to lack of adhesion. Use Isopropyl Alcohol and clean rags. Stronger solvents; such as, aromatics, ketone or lacquer thinner may craze the plastic/fiberglass surface.	

APPLICATION DATA

MIXING DIRECTIONS

Stir thoroughly before and occasionally during use.

THINNING

Thin 100% to 150% with medium temperature lacquer thinner. (65-85°F) NOTE: Aliphatic solvents such as mineral spirits or VM&P Naptha are not compatible with this product.

POT LIFE

N/A

RECOMMENDED WET FILM BUILD (unreduced)

Spray Application: 3.5 - 5.0 mils

RECOMMENDED DRY FILM BUILD

1.0 - 1.5 mils

Film in excess or below these recommended film builds may cause problems such as, adhesion failure, pigment floatation, solvent popping, slow cure, and accelerated gloss and color failure.

APPLICATION EQUIPMENT

Conventional Spray: 35-40 psi at the gun.

DRYING TIME

3.5 mils wet at 77°F (25°C) and 50% relative humidity.

To Touch:	10 minutes
To Handle:	45 minutes*
Dry:	24 hours**
Recoat:	1 hour to 4 days
Force Dry:	N/A
Bake	N/A

* 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.

Application of film thickness in excess of that recommended for this product will substantially extend dry time and lengthen the recoat window.

RECOMMENDED SPREADING RATE

390-491 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 nor losses due to surface irregularities or porosity.

CLEAN UP

PPG Lacquer Thinner

APPLICATION PRECAUTIONS AND LIMITATIONS

Apply only when air, product or surface temperature is above 50°F (10°C) and when surface temperature is at least 5°F (3°C) above the dew point.

Brush and roller application is not recommended.

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

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 (304) 843-1300. CANADA (514) 645 - 1320 Have label information available.

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.

PPG Industries
Commercial Coatings

We're Everywhere You Look