



# Commercial Performance Coatings

## HSP-900 (GRAY) HSP-902 (BEIGE)

CPC 68

### High Solids Polyurethane Primer

PRODUCT DESCRIPTION			
<b>HSP-900 Component A</b>	HIGH SOLIDS POLYURETHANE PRIMER - GRAY	<b>HSP-901 Component B</b>	HSP-901 CATALYST FOR HSP-900/HSP902
<b>HSP-902 Component A</b>	HIGH SOLIDS POLYURETHANE PRIMER- BEIGE	<b>UH-511 Component C</b>	UH-511 POLYURETHANE PRIMER/TOPCOAT CATALYST UA-11 Urethane Accelerator
<b>TYPE:</b> Polyurethane			
<b>RECOMMENDED USE</b> The high solids primer is a 2.8 VOC polyurethane primer that does not contain any chromium pigments. It exhibits excellent corrosion resistance and adhesion when applied over properly prepared steel, galvanized steel, aluminum and fiberglass.			
<b>COLOR:</b> Gray/Beige			
PHYSICAL CONSTANTS			
<b>WEIGHT PER U.S. GALLON (MIXED)</b>	13.2 - 14.2 lbs/gal	<b>FLASH POINTS</b>	
<b>PERCENT SOLIDS BY WEIGHT (MIXED)</b>	79% - 81%	HSP-900	Pensky-Martens 78°F (26 °C)
<b>PERCENT SOLIDS BY VOLUME (MIXED)</b>	61.2% - 61.4%	HSP-902	Pensky-Martens 84°F (29 °C)
		HSP-901	Penske-Martens 80°F (27°C)
		UH511	Pensky-Martens 80°F (27 °C)
		UA-11	Pensky-Martens 96°F (36 °C)
		<b>VOC (MIXED)</b>	<2.8 lbs/gal
<b>READY TO SPRAY VISCOSITY</b> (varies by color)	#3 Zahn	10-20 seconds	#2 Zahn N/A
PERFORMANCE FEATURES			
<b>96 HOUR HUMIDITY RESISTANCE</b> Excellent			
<b>ADHESION</b> Excellent			
<b>IN SERVICE TEMPERATURE LIMITATIONS</b> 300°F			
CHEMICAL/SOLVENT RESISTANCE			
10% SULFURIC ACID	Excellent	10%HYDROCHLORIC ACID	Excellent
10%AMMONIA	Excellent	10%SODIUM HYDROXIDE	Excellent
XYLENE	Excellent	ISOPROPYL ALCOHOL	Excellent
OIL	Excellent	GASOLINE	Excellent
500 HOURS SALT SPRAY	Excellent		
WATER RESISTANCE: Resistant to intermittent exposure. <b>Not recommended for immersion</b>			



## SURFACE PREPARATION

The surface to be coated must be 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 total coating system.

Metal	Recommended Topcoat	Direct To Properly Treated Substrate
Cold Rolled Steel	ALK-200, ALK-200/201, ALK-300, ALK-300-LG, AUE-100, AUE-300, AUE-350, AUE-400LG	Excellent
Hot Rolled Steel	ALK-200, ALK-200/201, ALK-300, ALK-300-LG, AUE-100, AUE-300, AUE-350, AUE-400LG	Excellent
Galvanized	ALK-200, ALK-200/201, ALK-300, ALK-300-LG, AUE-100, AUE-300, AUE-350, AUE-400LG	Very Good
Galvaneal	ALK-200, ALK-200/201, ALK-300, ALK-300-LG, AUE-100, AUE-300, AUE-350, AUE-400LG	Very Good
Aluminum	ALK-200, ALK-200/201, ALK-300, ALK-300-LG, AUE-100, AUE-300, AUE-350, AUE-280, AUE-400LG	Excellent
Plastic/Fiberglass	The 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.	

## APPLICATION DATA

### MIXING DIRECTIONS

Stir thoroughly before and occasionally during use.

Mix 5 parts of component A with 1 part of component B and 6 oz. UA-11 urethane accelerator component C per RTS gallon.

### THINNING

Not recommended where VOC compliance is required.

### POT LIFE

2 hours after mixing @ 75°F mix only enough material that can be used in two hours. Note: heat shortens pot life of this material.

### RECOMMENDED WET FILM BUILD (mixed)

Spray Application: 2.0- 2.2 mils

### RECOMMENDED DRY FILM BUILD

1.5 - 1.8 mils

Film in excess or below these recommended film builds may cause problems such as, extended dry time, adhesion failure, solvent popping, and slow cure.

### APPLICATION EQUIPMENT

Conventional Spray: 55-65 psi at the gun.

### DRYING TIME

2.5 - 3.0 mils wet at 77°F (25°C) and 50% relative humidity.

To Touch:	45 minutes
To Handle:	2 hours
Dry:	24 hours*
To Topcoat:	1 hour to 8 hours, or 2 hours to 8 hours if topcoating with ALK-200/201 or ACR-100.
Recoat:	Before 1 hour

**Note: After 8 hours primer should be mechanically abraded before topcoating or recoating.**

**Force Dry:** Allow 10 minutes air dry  
Bake 30 minutes @ 160°F \*\*

**Note:** Paint film is not fully cured for 7 days

\* Drying time listed may vary, depending upon film build, and temperature.

\*\* If primer is baked before topcoating, topcoat must be applied within one hour of cooling.

### RECOMMENDED SPREADING RATE

980 sq. ft. at 1.0 mil dry film per U.S. gallon. Coverage figures do not include losses due to mixing, transfer or application of coating or losses due to surface irregularities or porosity.

### CLEAN UP

PPG Urethane Reducer or 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

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