



Commercial Performance Coatings

HSP-2128YW (YELLOW)

CPC 65

3.5 VOC Polyurethane Primer - Yellow

PRODUCT DESCRIPTION			
HSP-2128YW Caterpillar® Approved 3.5 VOC POLYURETHANE PRIMER - YELLOW Component A		HSP-211 CATALYST FOR HSP-2128 PRIMERS Component B	
		UA-11 URETHANE ACCELERATOR Component C	
TYPE: Polyurethane			
RECOMMENDED USE: HSP-2128YW is a 3.5 VOC polyurethane primer approved and recommended for Caterpillar Yellow equipment components required to pass Caterpillar's 1E2732A high performance yellow primer specification. Suitable applications include Caterpillar out-source metal fabrication shops, castings, drive assemblies and hydraulic components.			
HSP-2128YW polyurethane primer meets all the color, adhesion, corrosion resistance and quality control properties associated with Caterpillar's 1E2732A specification. Use of this primer with any of PPG's Caterpillar-approved high performance topcoats results in a smooth, durable coating system that presents a quality image (see surface prep. chart).			
HSP-2128YW is easy to mix and apply, has a good working pot life, and dries quickly to improve productivity in high volume Caterpillar outsource operations.			
COLOR: Caterpillar approved CAT Yellow			
PHYSICAL CONSTANTS			
WEIGHT PER U.S. GALLON (MIXED) 10.7 - 10.9 LBS./GAL.		FLASH POINTS	
PERCENT SOLIDS BY WEIGHT (MIXED) 66.2 - 68.2%		HSP-2128YW	Pensky-Martens 1°F (-17°C)
PERCENT SOLIDS BY VOLUME (MIXED) 48.1 – 50.1%		HSP-211	Pensky-Martens 334°F (168°C)
		UA-11	Pensky-Martens 96°F (36°C)
		VOC (MIXED)	3.5 lbs./gal
READY TO SPRAY VISCOSITY (varies by color)		#3 Zahn	10-20 seconds
PERFORMANCE FEATURES			
Passes all 1E2732A specification requirements			
96 HOUR HUMIDITY RESISTANCE Excellent			
ADHESION Excellent			
IN SERVICE TEMPERATURE LIMITATIONS 300° F			
CHEMICAL/SOLVENT RESISTANCE			
10% SULFURIC ACID	Excellent	10%HYDROCHLORIC ACID	Excellent
10%AMMONIA	Very Good	10%SODIUM HYDROXIDE	Excellent
XYLENE	Excellent	ISOPROPYL ALCOHOL	Excellent
OIL	Excellent	GASOLINE	Excellent
750 HOURS SALT SPRAY	Excellent		
WATER RESISTANCE: Resistant to intermittent exposure. Not recommended for immersion			

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SURFACE PREPARATION		
For optimum performance, surface to be coated should be sanded, free of all contamination, including dust, dirt, oil, grease and oxidation.		
Metal	Recommended Topcoat	Direct To Properly Treated Substrate
Cold Rolled Steel	AU3-L801, AU3-L901, AU3-L301	Excellent
Hot Rolled Steel	AU3-L801, AU3-L901, AU3-L301	Excellent
Galvanized	AU3-L801, AU3-L901, AU3-L301	Fair
Galvaneal	AU3-L801, AU3-L901, AU3-L301	Excellent
Aluminum	AU3-L801, AU3-L901, AU3-L301	Excellent
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.	

APPLICATION DATA	
MIXING DIRECTIONS Stir thoroughly before and occasionally during use. Mix 7 PARTS HSP-2128YW TO 1 PART HSP-211 TO 6OZ UA-11 PER RTS GALLON. 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. DO NOT USE LACQUER THINNERS FOR CLEANING LINES.	
THINNING For improved application properties and pot life, thinning is recommended between 10% - 25% by volume with Acetone. NOTE: TO REMAIN WITHIN STATED VOC LIMITS IN NON-ACETONE EXEMPT AREAS (3.5 LBS./GAL.), DO NOT EXCEED 10 oz ADDED ACETONE TO EACH RTS GALLON. PPG DT series urethane reducers may be used up to 25% by volume in non-VOC regulated areas. POT LIFE 1.5-2.5 hours at 75°F. Additional acetone may be added for longer pot life. Mix only enough material that can be used in two and a half hours or less. Note: Higher temperatures will shorten pot life. RECOMMENDED WET FILM BUILD (Mixed) Spray Application: 3.5 to 4.5 mils RECOMMENDED DRY FILM BUILD 1.5 to 2.5 mils Film in excess or below these recommended film builds may cause problems such as poor adhesion, solvent popping, runs, sags, or extended dry times.	APPLICATION EQUIPMENT Conventional Spray: 55-65 psi at the gun DRYING TIME 3 to 4 mils wet at 77°F (25°C) and 50% relative humidity. To Touch: 45 minutes Handle: * 2 hours Dry: ** 8 hours To topcoat: After 1 hour, before 3 weeks * 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. **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 788 sq. ft. at 1.0 mil dry film per U.S. gallon (varies by color). Spreading rate figures do not include losses due to thinning, transfer, application of coating, or losses due to surface irregularities or porosity. CLEAN UP PPG Urethane Reducer or Acetone. Do not use Lacquer Thinner. Moisture and/or alcohol content of Lacquer Thinner may cause gelling or thickening of material remaining in lines and spray guns. 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.**

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