



PRODUCT DATA SHEET

Universal Waterborne Primer

DESCRIPTION

UP-1000 is a single component waterborne primer designed to dry fast and have excellent sanding properties. It has been designed for finishing interior cabinetry and woodwork, and may be top-coated with specific, approved, waterborne and solvent-borne products. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
UP-1000	<p>Viscosity: 35-40 #2 Zahn EZ Weight Solids: 65% Volume Solids: 46.3% Weight/Gallon: 12.76 lbs./gal Coverage: 742.3 sq. ft. per gallon at one mil dry film thickness.</p> <p>VOC (reg./coating): 0.33 lbs./gl. or 39.3 g/l VOC (act/material): 0.16 lbs./gl. or 19 g/l VOC Ratio: 0.02 lbs. VOC/lbs. Solids HAPS Ratio: 0.0 lbs. HAPS/lbs. Solids</p> <p>Dry Times: Air Dry: at 78° F, relative humidity 50% To touch: 6-10 minutes To handle: 15-20 minutes To sand/recoat: 25-30 minutes Note: <u>Recommended dry time is 60 minutes if using under solvent topcoats</u></p> <p>Force Dry: Flash: 10 minutes Bake: 30 min @ 105° F Cool down: 10 min</p> <p>Relative humidity will affect the speed of drying. Ideal conditions are 75° F or warmer at 50% humidity or less. Dry time will be faster at higher temperatures and lower humidity and equally slower at colder temperatures and higher humidity.</p> <p>Dry Film Thickness: To optimize performance, the ideal DFT for this primer should be between 1.4-2.5 mils. Please refer to the PDS for the specific topcoat you are using for maximum allowable DFT for the complete system.</p> <p>Shelf Life: 12 months @77° F if unopened and stored in a cool dry area. Always rotate stock.</p> <p>Storage: Protect product from freezing.</p>	<p>Reduction/Thinning: Reduction is not necessary but may be required for certain types of application, equipment. Use water for reduction. Very little water is needed to reduce viscosity, typically no more than 5-10% by volume.</p> <p>For Improved Tannin Blocking: For gallon containers-Add 5 oz of ESB2 per gallon of UP-1000*. For 5 gallon pails. Add 25 oz of ESB2 per Pail of UP-1000*. *Shake immediately after adding ESB2 to the UP-1000!</p> <p>Max VOC after addition of ESB2 at recommended amount is <275 gpl. Pot life: The UP-1000 will have 2 weeks of pot life after the addition of ESB2. Note: Viscosity will increase slightly every few days. Product may require a small reduction at times with water to achieve the desired spray viscosity. Typically no more than 5% by volume of additional water is necessary.</p> <p>Approved Companion Products ESB2 Tannin Blocking Additive ECLWT-01XX Eclipse White Topcoats NEXW-15XX Nexus White Precat Asteria Clear And White CV Series Gemvar Clear And White CV Series Gemini 275 VOC Clear And White CV Series Sirca 60PU79GX Clear 2K Acrylic Series Sirca 60PP530GX White 2K PU Series</p> <p><i>Note: These numbers represent actual control values on a smooth, sanded substrate. Spray techniques, texture, and sealing as well as film thickness may give different results on actual work, but they may be used for comparison. To the best of our knowledge, the above technical data is true and accurate at the date of issuance but is subject to change without prior notice.</i></p>
<p>PRODUCT ADVANTAGES</p> <ul style="list-style-type: none"> ➤ Super Fast Dry ➤ Superior Sanding Properties ➤ Low VOC ➤ HAPs Free ➤ Formaldehyde Free ➤ Phthalate Free ➤ May be Used With Both Water-borne And Solvent-borne Topcoats (See Approved Companion Products Section) ➤ The Addition of ESB2 Will Enhance Tannin Blocking Properties 		

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PRODUCT DATA SHEET UP-1000 CONTINUED



Substrate preparation:

New wood: Remove any dirt, grease, glue or other contaminants. Moisture content of wood should be 7-9%. Sand to 150-180 grit. Proper sanding of wood is absolutely critical to achieve the best color development and adhesion of the coating to the substrate.

Old wood: Strip old finishes completely and remove all contaminants from the surface. Make sure the surface is dry, sand as required. Finish same as new wood.



Mixing Instructions:

Mix material thoroughly before and during use. Material may be mixed by hand or mechanical agitation at moderate speed.



Application:

Using conventional, HVLP, airless, or air assisted equipment, apply this product at 3-5 wet mils per coat. Let dry a minimum of 25-30 minutes. When using an approved solvent-borne topcoat let dry a minimum of 60 minutes. Sand with 240-280 grit, no-fill sandpaper and remove sanding dust with clean compressed air. This product must be sanded in between coats to ensure proper adhesion.

Typically, we recommend a coating system comprised of 1-2 two coats of UP-1000 applied at 3-5 mils wet film build and 1-2 coats of an approved companion topcoat. Please refer to the Approved Companion Products section of this document for approved topcoats. **Please refer to the Product Data Sheet for the topcoat you are using for maximum dry film thickness recommendations.**

This product must not be polluted with oil, solvent-based paint or the like and should not be applied to metal surfaces. Application and drying conditions must be at temperatures of 68°F or above and at a humidity of less than 75%. Increased air flow and/or drying temperatures, including the use of infrared lighting for cure will significantly decrease dry times.



Recommended Tip Sizes:

Conventional Air	1.8-2.0 mm
HVLP	1.9-2.2 mm
Airless	8-10 thousandths
Air Assisted Airless-	9-11 thousandths



Precautions:

These products are intended for Professional use only. Do not proceed if you are planning on mixing with other finishing systems or other manufacturer's products. Gemini will not be held liable for finish failures due to the improper use of our products or deviation from our finishing recommendations

Equipment:

All equipment used with this product must have plastic, stainless steel, or Teflon fluid passages and wetted parts

Containers:

All containers used in conjunction with storage and/or application of this product must be stainless steel, or plastic.

Clean up:

Use water to clean all equipment when material is in a liquid stage. Use 2:1 mixture of water and Butyl Cellosolve (SOL-0061) to remove semi-dried coating. Use Acetone to remove dried coating. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.