



PRODUCT DATA SHEET

Gem Var® White Conversion Varnish

DESCRIPTION

Gem Var® White is a genuinely unique product that provides the user with a true conversion varnish system that exhibits an exceptionally beautiful look and feel. It has been specifically formulated for kitchen and bathroom cabinetry, architectural millwork and any other surface that requires superior resistance to moisture and household chemicals. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
UCV-1090 Gloss UCV-1060 Semi-Gloss UCV-1030 Satin UCV-1010 Flat	Viscosity: 20-24 #4 Ford Weight Solids: 48.07-48.85% Volume Solids: 31.05-31.58% Weight/Gallon: 9.39-9.45 lb./gal Coverage: 498-506 sq. ft. per gallon at one mil dry film thickness. VOC (coating): 4.83-4.87 lb./gl. or 579-583 g/l VOC (material): 4.82-4.86 lb./gl. or 578-582 g/l VOC Ratio: 1.04-1.07 lb. VOC/lb. solids HAPS Ratio: 0.17-0.18 lb. HAPS/lb. solids Dry Times: Air Dry: at 78°F, relative humidity 50% To touch: 10 minutes To Handle: 20 minutes To sand/recoat: 45-60 minutes Force Dry: Flash: 8-10 minutes Bake: 15 min @ 110° F Cool down: 15 min Stack immediately after cool down 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. Dry Film Thickness: Maximum DFT for this system is 4 mils dry. Pot Life: 24 Hours @ 77° in a sealed container. Shelf Life Un-Catalyzed: 18 months @ 77° if unopened and stored in a cool dry area. Always rotate stock. Storage: Keep away from heat or sparks.	Catalyzation: Use prepackaged catalyst kit: For one gallon, short-filled to 124 ounces, add 4 ounces C7302 (3.2% by volume). NOTE: DO NOT add more than the recommended amount of catalyst! This will not make the product dry or cure faster and may cause cracking, haziness, gloss issues and will affect the integrity of the final product. Reduction: Important: Always catalyze BEFORE reducing! Thinning: This product is supplied ready to spray (after catalyzation). If needed, use SOL-9059 or SOL-9011 at levels not to exceed 10% by volume. Retarder: If a slower dry time is desired, use SOL-9012 Haps Free Retarder at levels not to exceed 4% by volume* Tinting: May be tinted with up to 4 ounces per gallon of 844 Chromaflo or Opticolor XP colorants. Do not use umber pigments. Never tint with universal colorants that contain Glycol. *Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning. Approved Companion Products CVP-1000 PRESIDIO White Vinyl Primer ACVP-8000 ASTERIA White Primer ANP-8500 ASTERIA Neutral Primer
PRODUCT ADVANTAGES		
<ul style="list-style-type: none"> ➤ Ultra-Low Formaldehyde ➤ Excellent UV Resistance ➤ Exceptional Water and Chemical Resistance ➤ No Critical Recoat Time ➤ Short Filled for Tinting and Catalyst addition ➤ Catalyst Supplied in Pre-measured Containers ➤ Meets AWI System 5 ➤ Exceeds KCMA Performance Requirements When Applied To Manufacturer's Specifications ➤ Non Photochemically Reactive <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>		

April, 2023

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PRODUCT DATA SHEET UCV-10XX SERIES 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 as new work.



Mixing Instructions:

Mix material thoroughly before and during use. Material may be mixed by hand or mechanical agitation at moderate speed. Catalyze UCV-10X0 Series with pre-packaged catalyst kit in a stainless steel or plastic-lined container. Material should be agitated slowly while mixing in the catalyst. Mix or agitate thoroughly before use.



Application:

Using conventional, HVLP, airless or air-assisted equipment, apply this product at 3-4 wet mils per coat. Let dry a minimum of 45-60 minutes. Sand with 280-320 grit, no-fill sandpaper and remove sanding dust with clean compressed air or tack rag. This product must be sanded between coats to ensure proper adhesion.

On wood substrates we recommend a coating system comprised of one coat of primer applied at 4-5 mils wet film build and 1-2 coats of topcoat applied at 4-5 mils wet film build. On MDF we recommend two coats of primer (especially on routed areas) applied at 4-5 mils wet film build and 1-2 coats of topcoat. Please refer to the Approved Companion Products section of this document for a list of companion primers.

This product may also be used as a self-sealing system. Used as a self-sealing system we recommend 2-3 coats applied at 3-4 wet mils per coat. Maximum film build for the entire system must not exceed 4 dry mils.



Recommended Tip Sizes:

Conventional Air	1.8 mm
HVLP	1.5-1.9 mm
Airless	10-13 thousandths
Air Assisted Airless-	11-13 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:

We supply this material in a lined container. All containers used in conjunction with storage and/or application of this product must be stainless steel, plastic, or otherwise acid resistant.

Clean up:

Use SOL-9059 HAPs Free Reducer or SOL-9011 Non-HAPs Thinner to clean up all equipment. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

Care and cleaning of this finish: Use a mild dishwashing liquid and a damp cloth to remove food, grease, and other residue. Wipe dry. Do not use cleaners that contain ammonia, bleach, or abrasives as this may damage the finish.