



GEMINI
COATINGS

PRODUCT DATA SHEET

**275 VOC PREMIUM WHITE
CONVERSION VARNISH**

DESCRIPTION

275 VOC Premium White Conversion Varnish is a high performance, non-yellowing catalyzed varnish, with a proven record in industrial use for high quality cabinets, furniture, and fixtures. This varnish can be applied self-sealing or over a high quality conversion varnish primer. This product meets all of the pertinent government regulations regarding emissions and exceeds the performance parameters outlined by KCMA and ASTM. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
450-0019 Dull (20°) 450-0020 Gloss (90°) 450-0021 Semi Gloss (60°) 450-0022 Satin (30°) 450-0023 Flat (10°)	Viscosity: 14-18 #4 Ford Weight Solids: 57.5-58.4 % Volume Solids: 48.24-48.87 % Weight/Gallon: 11-05-11.14 lb./gal Coverage: 774-784 sq. ft. per gallon at one mil dry film thickness. VOC (Reg./coating): 2.25-2.28 lb./gl. or 269-274g/l VOC (Actual/material): 1.64-1.66 lb./gl. or 196-199g/l VOC Ratio: 0.24-0.25 lb. VOC/lb. solids HAPS Ratio: 0.0122-0.0126 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: 60-70 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 the complete system should not exceed 7 mils.	Catalyzation: Use pre-packaged catalyst kit: This is equal to 5 oz. of C7302 catalyst per 119 oz. (4.2% by volume). Reduction: Important: Always catalyze <i>BEFORE</i> reducing!
<p>PRODUCT ADVANTAGES</p> <ul style="list-style-type: none"> ➤ Extremely Low VOC ➤ Virtually HAPs Free ➤ AIM Compliant ➤ Ultra Low Formaldehyde ➤ Non Yellowing ➤ Self-Sealing ➤ High Solids ➤ Short-filled for catalyst ➤ Passes 168 Hours ASTM Water Immersion Test D870-92 ➤ Non Photo Chemically Reactive ➤ Phthalate Free 	NOTE!!!! Maximum DFT for the complete system utilizing the Flat (10 sheen) version must not exceed 6 dry mils. Pot Life: 5 days @ 77° F in a sealed container. Shelf Life: 12 months @77° F if unopened and stored in a cool dry area. Always rotate stock. Storage: Keep away from heat or sparks.	Thinning: If needed due to conditions in your facility use SOL-0020 Acetone, or SOL-9032 Zero VOC Lacquer Thinner at levels not to exceed 5% by volume* Maximum VOC after recommended reduction is 275 g/l *Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning. Approved Companion Products 150-0014 Conversion Varnish Primer <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>



Revised December 12th, 2016

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PRODUCT DATA SHEET 275 VOC PREMIUM WHITE CV 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. Catalyze with pre-packaged catalyst kit in a stainless steel or plastic lined container. Material should be agitated slowly while mixing in the catalyst. Rinse catalyst bottle with applicable solvent and add to product to ensure the material is properly catalyzed. Mix or agitate thoroughly for ten minutes 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 1 to 1 ½ hours. 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.

Typically we recommend a coating system comprised of one coat of a conversion varnish primer applied at 3-4 mils wet film build and 1-2 coats of topcoat applied at 3-4 mils wet film build. The approved primer for use with this topcoat is 150-0014. This product may also be used as a self-seal system. Used as a self-seal system we recommend 2-3 coats applied at 3-4 wet mils per coat.



Recommended Tip Sizes:

Conventional Air	1.3-1.8mm
HVLP	1.5-1.9mm
Airless	10-15 thousandths
Air Assisted Airless-	11-15 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-9020 Acetone, or SOL-9032 Zero VOC Lacquer 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.