




GEMINI
COATINGS

PRODUCT DATA SHEET

**275 VOC PREMIUM CLEAR
CONVERSION VARNISH**

DESCRIPTION

275 VOC Premium Clear Conversion Varnish is a high performance, water clear, non-yellowing catalyzed varnish, with a proven track record in industrial use for high quality cabinets, furniture and fixtures. This varnish can be applied over stained or natural wood as a self-sealing system or with a companion sealer. This product addresses environmental and safety concerns with its low HAPs and VOC formulations. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
550-0078 Gloss (90°) 550-0079 S.G. (60°) 550-0080 Satin (30°) 550-0081 Flat (10°) 550-0082 Dull (20°)	<p>Viscosity: 16-24 #4 Ford Weight Solids: 49.82-51.36 % Volume Solids: 48.85-50.03 % Weight/Gallon: 9.22-9.27 lb./gal Coverage: 784-802 sq. ft. per gallon at one mil dry film thickness.</p> <p>VOC (reg./coating): 2.24-2.29 lb./gl. or 269-274 g/l VOC (act/material): 1.67-1.69 lb./gl. or 200-201g/l VOC Ratio: 0.34-0.36 lb. VOC/lb. Solids HAPS Ratio: Zero</p> <p>Dry Times: Air Dry: at 78° F, relative humidity 50% To touch: 12-15 minutes To handle: 30-35 minutes To sand/recoat: 1-2 hours Force Dry: Flash: 8-10 minutes Bake: 30 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.</p> <p>Dry Film Thickness: Maximum DFT for the complete system should not exceed 12 mils. Must be applied according to application instructions.</p> <p>Pot Life: 1 Day when maintained in a closed container at 78 degrees.</p> <p>Shelf Life: 12 months @77° F if unopened and stored in a cool dry area. Always rotate stock.</p> <p>Storage: Keep away from heat or sparks.</p>	<p>Catalyzation: Use pre-packaged catalyst kit: This is equal to 6.2 oz. of C7302 catalyst per 121.8 oz. of product (5.1 % by volume).</p> <p>NOTE: DO NOT add more than the recommended amount of catalyst! This will not make the product cure faster or harder and may cause cracking, haziness, gloss issues, and will affect the integrity of the final product.</p> <p>Reduction: Important: Always catalyze <i>BEFORE</i> reducing!</p> <p>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</p> <p>*Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning.</p> <p>Approved Companion Products</p> <p>210-0240</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"> ➤ 275 VOC Compliant ➤ Ultra Low Formaldehyde ➤ Excellent Mar Resistance ➤ Non-Yellowing ➤ Water Clear ➤ Self-Sealing ➤ High Build With Fewer Coats ➤ Short Filled To Allow For The Addition Of Catalyst ➤ Catalyst Supplied in Pre-Measured Containers ➤ HAP's Free ➤ Phthalate Free ➤ Non Photo Chemically Reactive ➤ Exceeds KCMA Performance Requirements, When Applied To Manufacturer's Specifications 		

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PRODUCT DATA SHEET 275 VOC C.V. SERIES CONTINUED



Substrate preparation:

New wood: Remove any dirt, grease, glue or other contaminants. Moisture content of wood should be 7-9%. Sand wood 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 275 VOC C.V. Series 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:

If staining, apply the approved Gemini stain of your choosing and let dry per the instructions on the PDS for that particular stain.

Using conventional, HVLP, airless, or air assisted equipment, apply this product at 3-4 wet mils per coat. Let dry a minimum of 1-2 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.

This product is designed to be used either as a self-seal system, or in conjunction with our 210-0240 275 VOC Conversion Varnish Sealer. Generally we recommend 1 coat of sealer and 1-2 coats of topcoat applied at 3-4 wet mils per coat for a great finish. Used as a self-seal system we recommend 2-3 coats applied at 3-4 wet mils per coat. Maximum film build for the entire system using the sealer must not exceed 6 dry mils.

A full fill look may be achieved utilizing this system. However, this only applies to using as a self-seal system, and you must allow each coat to cure thoroughly prior to the application of the next coat. **Care must be taken to avoid excessive film thickness during the application of each coat. Excessive wet film thickness may lead to improper curing between coats, which can cause cracking.** Following these guidelines, a final dry film thickness of 12 mils may be achieved. ***Cure rates vary depending on humidity and temperature.** Maximum film build for the entire self-seal system must not exceed 12 dry mils.



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-0020 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.