

## High Solids Conversion Varnish Sealer

### DESCRIPTION

CVS-0400 is a post catalyzed, conversion varnish vinyl sealer with a fast cure rate and excellent moisture and chemical resistance. It has superior adhesion characteristics and is an excellent choice for use in high performance conversion varnish systems. It is slightly higher in solids and cures quicker than our CVS-0100 yet still has an extended pot life of 7 days. This vinyl sealer exceeds the performance parameters outlined by KCMA. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
CVS-0400 Clear Sealer	<p><b>Viscosity:</b> 14 #4 Ford  <b>Weight Solids:</b> 26.7 %  <b>Volume Solids:</b> 20%  <b>Weight/Gallon:</b> 7.57 lbs./gal  <b>Coverage:</b> 322 sq. ft. per gallon at one mil dry film thickness.</p>	<p><b>Catalyzation:</b> Use pre-packaged catalyst kit: This is equal to 3.5 oz of C7302 catalyst per gallon (2.7% by volume).  <b>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.</b></p>
PRODUCT ADVANTAGES	<p><b>VOC (coating):</b> 5.43 lbs./gl. or 650 g/l  <b>VOC (material):</b> 5.07 lbs./gl. or 607 g/l  <b>VOC Ratio:</b> 2.51 lbs. VOC/lbs. solids  <b>HAPS Ratio:</b> 0.4771 lbs. HAPS/lbs. solids</p> <p><b>Dry Times:</b>  <b>Air Dry:</b> at 78°F, relative humidity 50%            To touch: 9 minutes            To Handle: 15 minutes            To sand/recoat: 25-30 minutes  <b>Force Dry:</b>            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.</p> <p><b>Dry Film Thickness:</b>            For best results, the DFT for this sealer should be between .7-1.5 mils. Please refer to the PDS for the specific topcoat you are using for maximum DFT for the complete system.</p> <p><b>Pot Life:</b> 7 Days</p> <p><b>Shelf Life:</b> 18 months @77° F if un-catalyzed, unopened and stored in a cool dry area. Always rotate stock.</p> <p><b>Storage:</b> Keep away from heat or sparks.</p>	<p><b>Reduction:</b>  <b>Important:</b> Always catalyze <i>BEFORE</i> reducing!</p> <p><b>Thinning:</b> This product is supplied ready to spray (after catalyzation). If needed due to conditions in your facility, use SOL-9059 HAPs Free Reducer or SOL-9011 HAPs Free Thinner at levels not to exceed 5% by volume.*</p> <p><b>Retarder:</b> If a slower dry time is desired, use SOL-9012 Haps Free Retarder at levels not to exceed 4% by volume.*</p> <p>*Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning.</p> <p><b>Approved Companion Products</b>            Asteria AFCVRS-02XX Series            Gemvar UCV-00X0 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>
<ul style="list-style-type: none"> <li>➤ Ready to spray once catalyzed</li> <li>➤ 7 Day Pot Life!</li> <li>➤ Fast Cure Schedule</li> <li>➤ Excellent Sanding Properties</li> <li>➤ HAPs and AIM compliant</li> <li>➤ Catalyst Supplied in Pre-Measured Containers</li> <li>➤ Non Photo Chemically Reactive</li> <li>➤ Phthalate Free</li> </ul>		

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## PRODUCT DATA SHEET CVS-0400 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 CVS-0400 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:

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 25-30 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 in between coats to ensure proper adhesion.

Typically we recommend a coating system comprised of one coat of CVS-0400 sealer applied at 3-4 mils wet film build and 1-2 coats of an approved conversion varnish topcoat applied at 3-4 mils wet film build. Please refer to the Approved Companion Products section of this document for approved topcoats. Refer to the Product Data Sheet for the conversion varnish topcoat you are using for maximum dry film thickness recommendations.



### Recommended Tip Sizes:

Conventional Air	1.4-1.8 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-9011 Non HAPs Thinner or SOL-9059 HAPs Free Reducer 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.