



INDUSTRIAL WOOD FINISHES

# PRODUCT DATA SHEET

## ASTERIA Clear Conversion Varnish

### DESCRIPTION

ASTERIA Conversion Varnish has been specifically designed for kitchen and bathroom cabinetry, architectural millwork, and any other interior woodwork which demands excellent durability, flexibility, UV stability, water, and chemical resistance. For the finisher ASTERIA provides a coating that is easy to catalyze, has great flow and leveling and a very fast cure time which results in faster throughput for the finishing room. ASTERIA is a true, water clear conversion varnish and does not contain any nitrocellulose. ASTERIA meets or exceeds the performance parameters outlined by KCMA and ASTM. For wood substrates only. For interior use only.

PRODUCT NUMBERS / SHEENS		COATING PROPERTIES	PREPARATION INSTRUCTIONS
AFCVRS-0290	GLOSS	<b>Viscosity:</b> 19-24 #2 Zahn <b>Weight Solids:</b> 38.9-43.57% <b>Volume Solids:</b> 31.2-34.4% <b>Weight/Gallon:</b> 8.0-8.3 lbs./gal <b>Coverage:</b> 500-551.1sq. ft. per gallon at one mil dry film thickness. <b>VOC (reg./coating):</b> 4.2-4.4 lbs./gl. or 501-527g/l <b>VOC (act/material):</b> 3.5-3.6 lbs./gl. or 418-434.9 g/l <b>VOC Ratio:</b> 0.97-1.15 lbs. VOC/lbs. Solid <b>HAPS Ratio:</b> 0.05-0.057 lbs. HAPS/lbs. Solid  <b>Dry Times:</b> <b>Air Dry:</b> at 78° F, relative humidity 50% To touch: 8-10 minutes To handle: 15-20 minutes To sand/recoat: 30-35 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. <b>Dry Film Thickness:</b> Maximum DFT for a complete system must not exceed 6 dry mils.  <b>Pot Life:</b> 24 hours @ 77° F in a sealed container.  <b>Shelf Life Un-Catalyzed:</b> 18 months @77° F if unopened, and stored in a cool dry area. Always rotate stock.  <b>Storage:</b> Keep away from heat or sparks.	<b>Catalyzation:</b> Using CAT10-0700: Mix 100 parts AFCVRS-02XX to 10 parts CAT10-0700 Catalyst (10% by volume)  For gallon containers-Add one pre-measured 11.6 oz. bottle of CAT10-0700 per short-filled gallon For 5 gallon pails. Add 58 oz of CAT10-0700 per short-filled pail. *Gallon Fill level is 116 oz., Five Gallon Fill level is 580 oz.  <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>  <b>Reduction:</b> <b>Important:</b> Always catalyze <i>BEFORE</i> reducing! <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.*  <b>Retarder:</b> If a slower dry time is desired, use SOL-9012 Haps Free Retarder at levels not to exceed 4% by volume.*  *Thinning this material may result in increasing the VOC levels of this product. Refer to your local regulations before thinning.  <b>Approved Companion Products</b> ASTVS-0200 ASTERIA Vinyl Sealer CVS-0400 CV Vinyl Sealer CVS-0100 CV Vinyl Sealer PVS-0100 NEXUS Precat Vinyl Sealer ACVP-8000 ASTERIA Primer/Surfacer ANP-8500 ASTERIA Neutral Primer/Surfacer CVP-1000 PRESIDIO White Vinyl Primer
AFCVRS-0260	SEMI-GLOSS		
AFCVRS-0230	SATIN		
AFCVRS-0220	DULL		
AFCVRS-0210	FLAT		
AFCVRS-0205	DEAD FLAT		
PRODUCT ADVANTAGES			
<ul style="list-style-type: none"> <li>➤ Fast Cure</li> <li>➤ Water Clear</li> <li>➤ Self-Sealing</li> <li>➤ Superb Sanding Properties When Used As A Self-Seal System</li> <li>➤ Containers Are Short Filled To Allow For The Addition Of Catalyst</li> <li>➤ Excellent UV Resistance</li> <li>➤ Meets Or Exceeds KCMA And ASTM Requirements When Applied To Manufacturer Specifications</li> <li>➤ Non Photo Chemically Reactive</li> <li>➤ Phthalate Free</li> </ul> <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>			

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PRODUCT DATA SHEET AFCVRS-02XX 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: PRODUCT MUST BE CATALYZED.**

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

**To Catalyze:** Material should be agitated slowly while mixing in the catalyst. Mix or agitate thoroughly after adding catalyst before use (5-10 minutes). This product has been short-filled to allow room for catalyst. Catalyze as follows:

Short filled Gallon: Add 11.6 oz CAT10-0700 (Use supplied pre-measured bottle) to the short-filled gallon.

Short filled Five Gallon Pails: Add 58 oz of CAT10-0700 to the short-filled pail.

OR:

Mix 100 parts AFCVRS-02XX to 10 parts CAT10-0700 (10% by volume).

Mixing Chart (examples for mixing various amounts):

AFCVRS-02XX	CAT10-0700
128 oz	12.8 oz
100 oz	10 oz
40 oz	4 oz
30 oz	3 oz
10	1 oz



**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 30-35 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 a Gemini companion conversion varnish sealer applied at 3-4 mils wet film build and 1-2 coats of topcoat applied at 3-4 mils wet film build. Please refer to the Approved Companion Products section of this document for companion sealers.

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. Maximum dry film thickness of the complete system **must not exceed 6 dry mils.**



**Recommended Tip Sizes:**

Conventional Air	1.4-1.8mm
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-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.