



# PRODUCT DATA SHEET

## Premium White Waterborne Conversion Varnish

### DESCRIPTION

MDW-01XX Series is a white, two-component, urethane modified waterborne coating system containing low levels of solvent allowing for significant reductions in both VOCs and HAPs. This system was designed to be used as a high performance coating in areas where excellent water and chemical resistance are necessary. This product meets all of the pertinent government regulations regarding emissions and meets or exceeds the performance parameters outlined by KCMA. For Wood Substrates Only. For Interior Use Only.

PRODUCT NUMBERS / SHEENS	COATING PROPERTIES	PREPARATION INSTRUCTIONS
MDW-0190 90 sheen MDW-0160 60 sheen MDW-0130 30 sheen MDW-0120 20 sheen MDW-0110 10 sheen	<b>Viscosity:</b> 23-27" #3 Zahn @ 77° <b>Weight Solids:</b> 46% <b>Volume Solids:</b> 33% <b>Weight/Gallon:</b> 10.1lbs/gal <b>Coverage:</b> 525sq ft per gallon at one mil dry film thickness.  <b>VOC (Act./material):</b> 0.2 lbs/gal (less exempt solvents) or 48g/l <b>VOC (Reg./Coating):</b> 0.4 lbs/gal or 52g/l <b>HAPs:</b> 0.0 lbs. HAPS/lbs. Solids  <b>Dry Times:</b> <b>Air Dry:</b> at 78° F, relative humidity 50% To touch: 15-20 minutes To handle: 25-35 minutes To sand/recoat: 45 minutes  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>Pot Life-</b> 24 hours*  <b>Dry Film Thickness:</b> Maximum DFT for a complete system must not exceed 4 dry mils.  <b>Shelf Life:</b> 12 months @77° F if unopened and stored in a cool dry area. Always rotate stock.  <b>Storage:</b> Protect product from freezing	<b>Catalyzation:</b> Use M702R at 3 fluid ounces per gallon  *This product may be re-catalyzed once after the first 24 hour period and will remain stable for another 24 hours. After the second 24 hour period, all material must be discarded.  <b>Reduction:</b> <b>Thinning:</b> Reduction is not necessary. If needed, water should be used for reduction. Very little water is needed to reduce viscosity, typically no more than 5% by volume.  <b>Retarder:</b> If a slower dry time is desired, use SOL-0090 at levels not to exceed 5%.  <b>Note:</b> Effective dry times will be lengthened if retarder is added.  *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> WBP-1102  <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>
PRODUCT ADVANTAGES		
<ul style="list-style-type: none"> <li>➤ Low Odor</li> <li>➤ Quick Dry</li> <li>➤ High Solids/Excellent Film Building Properties</li> <li>➤ Excellent Flow and Leveling</li> <li>➤ Minimum Grain Raise</li> <li>➤ Resists Yellowing*</li> <li>➤ Durable, Moisture and Chemical Resistant Film</li> <li>➤ Meets KCMA Performance Requirements, When Applied to Manufacturer's Specifications</li> </ul> <p>* The coating will not protect the wood, lightly stained wood substrates or pigmented basecoats from yellowing</p>		

April, 2023

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## PRODUCT DATA SHEET MDW-01XX 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 same as new wood.



### Mixing Instructions:

**Do Not Shake!** Catalyze using M702R at 3 fluid ounces per gallon. Mix material thoroughly and during use. This product may be re-catalyzed once after the first 24 hour period and will remain stable for another 24 hours. After the second 24 hour period, all material must be discarded. Material may be mixed by hand or mechanical agitation at moderate speed.



### 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 minutes. Sand with 280-320 grit, no-fill sandpaper and remove sanding dust with clean compressed air. This product must be sanded in between coats to ensure proper adhesion.

This product may be used with a primer or as a self-seal system.

If a primer is desired, we recommend a coating system comprised of 1-2 coats of an approved primer (please see the Approved Companion Products section of this document), applied at 3-4 mils wet film build and 1 coat of topcoat applied at 3-4 mils wet film build. If used as a self-seal system we recommend 2-3 coats of MDW-01X0 series. **Maximum dry film thickness of the complete system must not exceed 4 dry mils.**

This product must not be polluted with oil, solvent based paint or the like and should not be applied to metal surfaces. When applying a water base coating the air, substrate & coating temp should be above 65 degrees F and the humidity should be less than 65%. Increased air flow and/or drying temperatures, including the use of infrared lighting for cure will significantly decrease dry times.



### Recommended Tip Sizes:

Conventional Air	1.8-2.0 mm
HVLP	1.9-2.2 mm
Airless	8-10 thousandths
Air Assisted Airless-	9-11 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

### Airless Equipment Usage:

Due to the nature of this product, when used in airless equipment that is not stainless steel system; pumps require daily flushing and cleaning. Do not leave product in the system overnight as discoloration can take place due to reaction between the coating and non-stainless metals.

### Containers:

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

### Clean up:

Use water to clean all equipment when material is in a liquid stage. Use 2:1 mixture of water and Butyl Cellosolve (SOL-0061) to remove semi-dried coating. Use Acetone to remove dried coating. 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.