



**SHERWIN  
WILLIAMS.**

# Industrial Wood Coatings

# CC-F65

## SHER-WOOD®

## Kem Aqua® Plus White

Gloss White .....M64W521  
 Mid Gloss White.....M64W522  
 Low Gloss White.....M64W523  
 Custom Blend.....M64PX Series

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p><b>SHER-WOOD® KEM AQUA® PLUS WHITE</b> is a high quality water reducible pigmented white for finishing furniture, cabinets, and a wide variety of wood and novelty items. This high quality topcoat provides excellent appearance and performance over Sher-Wood® Kem Aqua® Plus Surfacer.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Meets Kitchen Cabinet Manufacturers Association (KCMA) over Sher-Wood® Kem Aqua® Plus Surfacer.</li> <li>• VOC as packaged &lt;2.08 lb/gal, 250 g/L*</li> <li>• Very good resistance to yellowing.</li> <li>• Excellent hardness, block resistance and print resistance.</li> <li>• Excellent mar resistance.</li> <li>• Good flow and leveling.</li> <li>• Better resistance to microfoaming than other latex coatings.</li> <li>• Good flexibility – passes 20 KCMA Cold Check cycles.</li> </ul> <p>*VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.</p>	<p><b>Gloss:</b> Gloss 70+ units        Mid Gloss 45-50 units        Low Gloss 20-25 units</p> <p><b>Volume Solids:</b> 31.0 ± 1%  <b>Weight Solids:</b> 42.0 ± 1%</p> <p><b>Viscosity:</b>        18-22 seconds #3 Zahn Cup</p> <p><b>Recommended film thickness:</b>        Mils Wet 3.0 - 4.0        Mils Dry 1.0 - 1.25</p> <p><b>Spreading Rate</b> (no application loss)        385-515 sq ft/gal @ 1.0-1.25 mils DFT</p> <p><b>Drying</b> (77°F, 50% RH):        To Touch: 15 minutes        To Handle: 20 minutes        To Sand: 22-25 minutes        To Recoat: 25 minutes        To Pack: 8-12 hours        Force Dry: 10-20 minutes at 120°F</p> <p>This product dries primarily by water evaporation. Best drying occurs at 50% RH or lower and temperatures of 77°F or higher. Good air movement is essential for complete drying.</p> <p>When humid shop conditions exist, lower relative humidity is achieved only by raising the temperature 10-30°F and ventilating out the excess moisture.</p> <p><b>Flash Point:</b> None</p> <p><b>Package Life:</b> 1 year, unopened, inside storage</p> <p><b>Freeze/Thaw:</b> 0 cycles</p> <p><b>Air Quality Data:</b></p> <ul style="list-style-type: none"> <li>• Non-photochemically reactive</li> <li>• Volatile Organic Compounds (VOC)          Theoretical as packaged, less water and exempt solvents &lt;2.08 lb/gal, 250 g/L</li> <li>• Volatile Hazardous Air Pollutants (VHAPS) as packaged, no reportable VHAPS</li> </ul> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility or at <a href="http://www.paintdocs.com">www.paintdocs.com</a></p>	<p><b>Wood</b> (interior only): Must be clean, dry, and finish sanded. Substrate should be free of grease, oil, dirt, fingerprints, and any contamination to ensure optimum adhesion and coating performance properties. Moisture content of wood should be 6 to 8%.</p> <p><b>Wood Finishing System:</b></p> <ol style="list-style-type: none"> <li>1. Seal—apply Sher-Wood Kem Aqua Plus Surfacer (E64W520) at 4.0-5.0 mils wet. Air dry with good air movement. Sand with 240 grit paper and remove all sanding dust.</li> <li>2. Topcoat - apply topcoat Sher-Wood Kem Aqua Plus White at 3.0-4.0 mils wet. Dry with good air movement. Apply an additional topcoat for greater build and fill depth. Allow 30 minutes drying between coats.</li> <li>3. Sher-Wood® Kem Aqua® Plus Clear (T75C555 series) can also be used as a final coat for additional performance properties.</li> <li>4. Maximum dry film thickness of the system must not exceed 4 mils dry.</li> </ol> <p><b>NOTE: Do not use Kem Aqua® Clear Lacquer over Kem Aqua® Plus Surfacer or Kem Aqua® Plus White. These systems are not compatible and will discolor. Kem Aqua® Plus Clear can be used as a final coat over Kem Aqua® Plus White.</b></p> <p><b>Testing:</b> The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.</p>

## APPLICATION

### Typical Setups

**Reduction:** Apply full body. If reduction is needed to optimize application, use up to 2% water. To ensure optimal performance and stability it is recommended to use deionized water for reduction. Product can be retarded with (DPM) Dipropylene Glycol Monomethyl Ether, or 2-Butoxyethanol (R6K25). Add up to 2% by volume under mechanical agitation. These solvents will also improve air release.

### **Conventional Spray:**

Air Pressure..... 45-55 psi  
Fluid Pressure ..... 8-10 psi  
Tip ..... 055-.070

### **Airless Spray:**

Pressure .....1500-1800 psi  
Tip ..... 013-.015

### **Air Assisted Airless:**

Air Pressure..... 15-20 psi  
Fluid Pressure .....400-700 psi  
Tip ..... 011-.013  
Reducer..... water  
Reduction Rate..... as needed up to 2%

### **HVLP:**

Air Pressure..... 8-10 psi  
Fluid Pressure ..... 5-10 psi  
Cap/Tip..... 055-.070

Some applications and equipment setups, especially air assisted airless and airless, may be prone to microfoaming of the wet film, which will give lower gloss and clarity. Do not use higher pressures than needed for atomization.

### **Clean-Up:**

Flush spray equipment completely with water followed by flushing with a 2:1 blend of water and 2-Butoxyethanol (R6K25) to remove water residue and to prevent rusting.

## ADDITIONAL INFORMATION

- Not recommended for exterior use.
- Use stainless steel spray equipment.
- Tank, piping and containers should be lined steel or plastic.
- Mix thoroughly prior to use. Avoid vigorous agitation, which may cause bubbling or foaming.
- Must not be exposed to freezing temperatures. Store inside.
- The customer is urged to pretest the system under shop conditions.
- Excessive wet film thickness (>4.0 mils wet) may sag.
- Maximum dry film thickness of coating system is 4.0 mils.
- Very low humidity may cause mud-cracking and poor film properties.
- When finishing Redwood, Red or White Oak, Pine and Cedar Wood With water based finishes, tannins may be extracted from the wood by the water and cause staining and/or discoloration. This tannin bleed is most evident with white topcoats. Sher-Wood Kem Aqua Plus Surfacer E64W520 must be used to prevent tannin discoloration.
- Products must be air dried at least overnight with good air movement before stacking or packing.
- May be tinted with up to 4 ounces of Kem Aqua® Colorants, ColorCast Ecotone® or Blend-a-Color® (BAC) colorants per gallon.
- Do not blend in any ratio with Sher-Wood Kem Aqua Lacquer as they are incompatible.
- Sher-Wood Kem Aqua Plus Whites and Sher-Wood Kem Aqua Plus Clears may be blended together in any ratio to expand color capability.

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## CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION ONLY

**Thoroughly review product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.**

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or [www.paintdocs.com](http://www.paintdocs.com).

Please direct any questions or comments to your local Sherwin-Williams facility.

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