



**SHERWIN  
WILLIAMS.**

# Chemical Coatings

## CC-F47

# SHER-WOOD® KEM AQUA® Pigmented Lacquer

|                            |         |                              |         |
|----------------------------|---------|------------------------------|---------|
| Gloss Black .....          | M64B500 | Gloss Blending White .....   | M64W501 |
| Low Gloss Black .....      | M64B550 | Gloss Warm White .....       | M64W502 |
| Gloss Clear .....          | M64C503 | Low Gloss Blending White ... | M64W551 |
| Low Gloss Warm White ..... | M64W552 | Low Gloss Clear .....        | M64F533 |

| <u>DESCRIPTION</u>  | <u>CHARACTERISTICS</u>  | <u>SPECIFICATIONS</u>   |
|---|---|---|
| <p><b>SHER-WOOD® KEM AQUA® Pigmented Lacquer</b> is a fast drying waterborne topcoat designed for use on a wide variety of interior wood finishing applications. This quality topcoat provides an excellent appearance over Sher-Wood® Kem Aqua® Pigmented Lacquer Primer. It meets all current regulations for EPA volatile organic compounds emission for wood finishing.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Meets the Federal HAPS rule for wood finishes as packaged*</li> <li>• Very low VOC - under 2.0 lb/gal less water</li> <li>• Very low volatile organic emissions - less than 1.0 lb./gal.</li> <li>• User friendly - easy to handle</li> <li>• Complete water system that handles and performs much like a lacquer</li> <li>• Excellent mar resistance</li> <li>• Good resistance to yellowing</li> <li>• Dries to handle and sand in 30 minutes at room temperature</li> <li>• Very good hardness, block resistance and print resistance</li> <li>• Very good early water resistance</li> <li>• Good flow and leveling</li> <li>• Offers greater safety to the user because it does not contain the volatile flammable organic solvents typical of lacquers</li> <li>• Contains water - reduced with water - cleanup with soap and water</li> <li>• Much higher solids than typical solvent-based lacquers</li> <li>• Full color range available</li> <li>• Full gloss range available</li> <li>• Meets Kitchen Cabinet Manufacturers Association (KCMA) over Sher-Wood® Kem Aqua® Pigmented Lacquer Primer E64W500</li> </ul> <p>*National Standards for Hazardous Air Pollutants (HAPS) Emissions for Wood Furniture Manufacturing Operations CFR40, Part 63, Subpart JJ</p> | <p><b>Gloss:</b> Gloss 78-83 units<br/>Low Gloss 20-25 units</p> <p><b>Volume Solids:</b> 26 ± 2%</p> <p><b>Weight Solids:</b> 36 ± 2%</p> <p><b>Viscosity:</b><br/>25-35 seconds #3 Zahn Cup</p> <p><b>Recommended film thickness:</b><br/>Mils Wet 3.0 -4.0<br/>Mils Dry 0.8 -1.1</p> <p><b>Spreading Rate</b> (no application loss)<br/>351-574 sq ft/gal @ 0.8-1.1 mils DFT</p> <p><b>Drying</b> (77°F, 50% RH):<br/>To Touch: 15 minutes<br/>To Handle: 20-30 minutes<br/>To Sand: 30 minutes<br/>To Recoat: 30 minutes<br/>To Rub: 4 hours<br/>To Pack: overnight<br/>Force Dry: 10-20 minutes at 120°F or equivalent</p> <p>Good air movement and humidity control are necessary for proper drying of water reducible coatings.</p> <p><b>Flash Point:</b> &gt;200°F Seta-Flash Closed Cup</p> <p><b>Package Life:</b> 1 years, unopened</p> <p><b>Storage:</b> Inside storage - Protect from freezing</p> <p><b>pH:</b> 8.5-9.0</p> <p><b>Air Quality Data:</b><br/>Non-photochemically reactive<br/>Volatile Organic Compounds (VOC) as packaged, maximum 2.0 lb/gal, 240 g/L<br/>Volatile Organic Emissions as packaged, maximum 1.0 lb/gal, 119.8 g/L<br/>Hazardous Air Pollutants (HAPS) as packaged, maximum less than 0.8 lbs per lb of solids</p> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility.</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.<br/>Moisture content of wood should be 6 to 8%.</p> <p><b>Testing:</b> Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.</p> <p><b>Custom Colors:</b> Custom colors can be made by blending intermix bases, or by shading with Kem Aqua colorants or Blend-A-Color (BAC) colorants. Maximum tint loads per gallon are 8 ounces with BAC colorants and 4 ounces with Kem Aqua Colorants.</p> <p><b>Wood Finishing System</b></p> <ol style="list-style-type: none"> <li>1. Primer—apply Sher-Wood® Kem Aqua® Pigmented Lacquer Primer E64W500 at 4-5 mils wet . Air dry thoroughly. Sand with 240 grit sandpaper. A second coat of primer may be applied for improved holdout. Sand between primer coats and before topcoat.</li> <li>2. Topcoat—apply Sher-Wood® Kem Aqua® Pigmented Lacquer at 3-4 mils wet. A second coat may be applied. Sand with 240 grit sandpaper between coats.</li> <li>3. Dry—allow overnight drying before stacking or packing.</li> <li>4. Maximum dry film thickness must not exceed 4 mils dry.</li> </ol> |

## APPLICATION

### Typical Setups

**Reduction:** Apply full body. If needed, reduce up to 10% with water. May be applied to warm substrate (120°F maximum).

#### **Conventional Spray:**

Air Pressure ..... 50-60 psi

Fluid Pressure ..... 10-12 psi

#### **Airless Spray:**

Pressure ..... 700-900 psi

Tip ..... .011-.013"

#### **Air Assisted Airless:**

Air Pressure ..... 25-30 psi

Fluid Pressure ..... 700-900 psi

Tip ..... .011-.013"

#### **HVLP:**

Atomizing Air ..... 60 psi

Fluid Pressure ..... 10 psi

Air Cap Air Pressure ..... 8-9 psi

#### **Cleanup:**

Clean tools/equipment immediately after use with soap and water, then dry thoroughly .

Flush equipment with water followed by flushing with alcohol to remove water residue and to prevent rusting.

Follow manufacturer's safety recommendations when using any solvent.

#### **Performance Tests:**

Cold Check Resistance ..... Passes 20 cycles

## SPECIFICATIONS

#### **Product Limitations:**

- Complete water based system is recommended - primer and topcoat. Not recommended as a self-seal system. Use Sher-Wood® Kem Aqua® Pigmented Lacquer Primer E64W500.
- 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.
- Dries primarily by water evaporation. Drying is retarded by high humidity or cold conditions. Best drying occurs at relative humidity of 50% or lower and temperature of 77°F or above. Good air movement is essential for complete dry.
- The customer is urged to pretest the system under shop conditions.
- Excessive wet film thickness (>4.0 mils wet) may sag - spray thin film.
- Primer must be dry and sanded before topcoating.
- When finishing redwood, red or white oak, and cedar wood with water based finishes, tannins may be extracted from the wood and cause yellowing or discoloration of the topcoat. This tannin bleed is most evident over unprimed wood surfaces. Therefore, Sher-Wood® Kem Aqua® Pigmented Lacquer Primer E64W500 must be used. Users are urged to thoroughly test the system under shop conditions.
- Sher-Wood® Kem Aqua® Pigmented Lacquer Clears, M64C503 and M64F553, are not recommended for use over light pastel and white colors as a "water white" clear coat due to an inherent yellow cast appearance.
- Products must be air dried at least overnight with good air movement before stacking or packing.
- 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.
- For wood substrates requiring a primer with additional filling properties, Kem Aqua® 65P SprayFil is recommended.

## CAUTIONS

Thoroughly review product label for safety and cautions prior to using this product.

A Material Safety Data Sheet is available from your local Sherwin-Williams facility. Please direct any questions or comments to your local Sherwin-Williams facility.

#### LABEL CAUTIONS

SEE CONTENTS STATEMENT ON LABEL.

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area.

Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

**FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.

**SPILL AND WASTE:** Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

**FOR INDUSTRIAL USE ONLY.**

SEE MATERIAL SAFETY DATA SHEET.3909-051905.

**Note:** Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.