



**SHERWIN  
WILLIAMS.**

# Chemical Coatings

CC-F22

## Sher-Wood® Super KemVar® "M" Topcoat

Medium Rubbed Effect ..... T77F47  
Dull Rubbed Effect ..... T77F48  
Catalyst ..... V66V26

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p><b>Sher-Wood Super KemVar "M" Topcoat</b> is a clear catalyzed vinyl finishing system for wood. It is fast drying and has excellent chemical resistance making it ideal for institutional and laboratory furniture.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Excellent chemical resistance - best of all Sher-Wood clear wood finishes</li> <li>• Fast drying</li> <li>• Meets KCMA specification</li> <li>• Excellent resistance to water, moisture, and organic solvents</li> <li>• Versatile application; may be applied by conventional, airless and air assisted airless spray</li> <li>• May be applied over Sher-Wood 24% Solids Vinyl Sealer T67F3 or use a self-sealing system.</li> <li>• Ideal for laboratory furniture, institutional furniture, etc.</li> <li>• Gives a "close to the wood" appearance when catalyzed then reduced 25% with Opex Lacquer Thinner.</li> <li>• Non-Photochemically Reactive</li> </ul>	<p><b>Gloss:</b></p> <p>MRE 30-34 units DRE 17-21 units</p> <p><b>Weight Solids:</b> 28 ± 1% <b>Volume Solids:</b> 20 ± 1%</p> <p><b>Viscosity:</b> 20-26 seconds #2 Zahn Cup 17-20 seconds #4 Ford Cup</p> <p><b>Recommended film thickness:</b> Mils Wet 4.0 - 5.0 Mils Dry 0.8 - 1.0</p> <p><b>Spreading Rate</b> (no application loss) 433-581sq ft/gal @ 0.8-1.0 mils DFT</p> <p><b>Drying</b> (77°F, 50% RH): To Touch: 15-20 minutes To Handle: 20-30 minutes To Sand: 45 minutes To Recoat: 45 minutes Force Dry: 10-20 minutes at 110-140°F</p> <p><b>Flash Point:</b> 21°F Pensky-Martens Closed Cup</p> <p><b>Mixing Ratio:</b> 1 part Super KemVar "M" 5% Catalyst V66V26</p> <p><b>Pot Life:</b> 5 days at room temperature, higher temperatures will shorten pot life</p> <p><b>Package Life:</b> 18 months, unopened uncatalyzed</p> <p><b>Air Quality Data:</b> Non-photochemically reactive Volatile Organic Compounds (VOC) as packaged, maximum 5.42 lb/gal, 650 g/L catalyzed as above: 5.43 lb/gal, 651 g/L catalyzed as above &amp; reduced 25% with Lacquer Thinner: 5.66 lb/gal, 680 g/L 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. Moisture content of wood should be 6 to 8%.</p> <p><b>Testing:</b> Due to the wide variety of substrates, surface preparation methods, and application methods and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.</p> <p><b>Wood Finishing System:</b> <b>Full Finish</b></p> <ol style="list-style-type: none"> <li>1. Sealer—use Super KemVar "M" as a sealer or use Sher-Wood 24% Solids Vinyl Sealer, T67F3, catalyzed 2% with V66V26. Apply full wet coat.</li> <li>2. Air dry 30 minutes, sand with 220-280 grit paper, remove all sanding dust.</li> <li>3. Topcoat—apply a full wet coat and allow to dry. For more depth, apply a second coat.</li> <li>4. Allow overnight drying before packing, stacking, or rubbing</li> <li>5. Maximum dry film thickness of the system must not exceed 4 mils.</li> </ol> <p><b>Close to the wood system</b></p> <ol style="list-style-type: none"> <li>1. Sealer—use Super KemVar "M" reduced 25% with Lacquer Thinner, R7K22. Apply full wet coat. Sher-Wood 24% Solids Vinyl Sealer, T67F3, catalyzed 2% with V66V26 and reduced 25% with Lacquer Thinner may also be used</li> <li>2. Air dry 30 minutes, sand with 220-280 grit paper, remove all sanding dust.</li> <li>3. Topcoat—reduce Super KemVar "M" 25% with Lacquer Thinner. Apply full wet coat.</li> <li>4. Allow overnight drying before packing, stacking, or rubbing.</li> </ol>

## APPLICATION

### **Conventional Spray:**

Air Pressure ..... 45-65 psi

Fluid Pressure ..... 6-7 psi

### **Airless Spray:**

Pressure ..... 1200 psi

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

### **Air Assisted Airless:**

Air Assist ..... 10-25 psi

Fluid Pressure ..... 600-700 psi

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

### **Cleanup:**

Clean tools/equipment immediately after use with Lacquer Thinner.

Follow manufacturer's safety recommendations when using any solvent.

## SPECIFICATIONS

### **Product Limitations:**

- Super KemVar "M" coatings must be catalyzed with 5% Sher-Wood Catalyst, V66V26. Cross-linking and film properties will not be obtained without catalyzation.
- This product must be used within 5 days of catalyzation to obtain optimum film properties. The catalyst causes a chemical reaction with a downgrading of performance properties after 5 days.
- Store at room temperature after catalyzation since elevated temperatures will cause faster chemical reaction.
- Total film thickness of the system must not exceed 4 mils dry film because heavier films may show cracking tendencies.
- For interior use only.
- Customers are urged to pretest the system under shop conditions.
- Do not use other catalysts with this product.
- Sher-Wood Catalyst, V66V26 is an acid. To prevent acid corrosion and pitting, all equipment should be made of stainless steel. Containers should be stainless steel or plastic.
- Maximum cure and chemical resistance is attained after 30 days air drying.
- Do not use in any systems over nitrocellulose because lifting can occur on recoating.
- Natural finished wood will change color upon aging and exposure to light. This is a natural phenomenon. Clear finishes will not prevent the wood from changing color.

## SPECIFICATIONS

### **Performance Tests**

Test panels were prepared as a self-sealing system, using 2 coats of Super KemVar "M" Topcoat catalyzed 5% with V66V26 and 30 days air drying.

Cold Water Immersion (4 days) ..... no effect

Bell Adhesion Test ..... no failure

Crosshatch Test ..... no failure

Impact Test: ½ lb Bevelled Steel Rod, 8" drop-

Slight crack (1/32")

Combustion Test: ½cc Naphtha puddle ignited-  
no visual effect on the coating that cannot be removed with a cloth

Humidity: 120°F, 96±2% RH, 24 hours-no visual effect

Cold Check ASTM D1211-60 ..... 20 cycles

Ultraviolet Exposure Sunlamp Arc, 24 hours-slight darkening

Taber Abrasion

CS 10 wheel ..... wear factor of 1.1 mils/1000 cycles

### **Chemical Resistance**

Reagents were trapped under an inverted watch glass for one hour at room temperature. Reagents were removed by washing with water or by wiping with a soft cloth after the test cycle.

Sulfuric Acid: 25%, 50%, 75%... no visual effect

Phosphoric Acid, 75% .....no visual effect

Sodium Hydroxide, 20% ..... no visual effect

Ammonium Hydroxide 28% slight darkening

Methyl Alcohol .....no visual effect

Ethyl Alcohol ..... slight softening

recovers in 1 hour

Methyl Ethyl Ketone ..... some softening

recovers in 1 hour

Chloroform .....no visual effect

Carbon Tetrachloride .....no visual effect

Formaldehyde .....no visual effect

Tomato Juice .....no visual effect

Orange Juice .....no visual effect

Merthiolate .....no visual effect

Ethyl Acetate ..... slight softening

recovers in 1 hour

Toluene ..... slight softening

recovers in 1 hour

Ethyl Ether .....no visual effect

Acetone ..... slight softening

recovers in 1 hour

Potassium Hydroxide 25% ....no visual effect

Saturated zinc chloride .....no visual effect

Benzene .....no visual effect

Gasoline .....no visual effect

Naphtha .....no visual effect

Mustard .....no visual effect

### **These reagents were tested for 24 hours**

**with no discoloration, whitening, rupture, or**

**shrinking.**

Vinegar ..... no effect

Lemon Juice ..... no effect

Orange Juice ..... no effect

Grape Juice ..... no effect

Tomato Catsup ..... no effect

Coffee ..... no effect

Olive Oil ..... no effect

100 Proof Alcohol ..... no effect

Nail Polish Remover ..... no effect

Lacquer Thinner ..... slight softening

recovers in 1 hour

## 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 ELSEWHERE ON LABEL.

Contents are FLAMMABLE. Vapors may cause flash fires. Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH approved) during and after application, unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. 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: If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Do not induce vomiting. 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.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

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.21661-051905.

**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.