## Product Finishes

**SHER-WOOD® Water White Conversion Varnish**

**Gloss** ....................................V84V80  
**Bright Rubbed Effect** ............V84F81  
**Medium Rubbed Effect**............V84F82  
**Dull Rubbed Effect** ...............V84F83  
**Catalyst**.................................V66V21

### DESCRIPTION

SHER-WOOD® Water White Conversion Varnish is a catalyzed wood finishing system providing water white color and good resistance to yellowing. It is recommended for use over white “pickled” and light color stains where good resistance to yellowing is required.

**Advantages:**
- Excellent clarity
- UV absorber added to insure good resistance to yellowing
- High Build - 35% volume solids
- Meets the Federal HAPS* standard for wood finishes
- Fast drying
- Meets the test requirements of the Kitchen Cabinet Manufacturers Association (KCMA)
- Self sealing - use the same product as a sealer
- Process efficient - many three coat applications can be done in two coats because of its high solids and high build
- Versatile - may be applied by conventional airless, air assisted airless, or electrostatic spray
- Good “hang” on vertical surfaces
- Excellent toughness and mar resistance
- Excellent moisture resistance
- Excellent resistance to household chemicals
- Excellent cold check resistance
- Ideal for kitchen cabinets, vanities, chairs, office furniture, and a wide range of interior wood products
- Free of lead hazards as packaged in compliance with Consumer Product Safety Commission’s (CPSC) 16 CFR Chapter II: Subchapter B, part 1303.

### CHARACTERISTICS

<table>
<thead>
<tr>
<th>Gloss:</th>
<th>Gloss - 85+ BRE - 55-59 units MRE - 34-38 units DRE - 17-21 units</th>
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<tbody>
<tr>
<td>Volume Solids:</td>
<td>35 ± 1%</td>
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<tr>
<td>Viscosity:</td>
<td>17-22 seconds #2 Zahn Cup 14-18 seconds #4 Ford Cup</td>
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<td>Recommended film thickness:</td>
<td>460-690 sq ft/gal @ 0.8-1.2 mils DFT</td>
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**Drying** (77°F, 50% RH):
- To Touch: 10-15 minutes
- To Handle: 15-30 minutes
- To Sand: 30-60 minutes
- To Recoat: 30-60 minutes

Coating must be applied and dried at a temperature of 70°F or higher to ensure acceptable coating properties.

**Force Dry:** 5-20 minutes at 110°-160°F

**Mixing Ratio, Sealer:**
- 1 part Conversion Varnish
- 3% Catalyst V66V21
- 15% Butyl Acetate R6K18

**Mixing Ratio, Topcoat:**
- 1 part Conversion Varnish
- 3% Catalyst V66V21
- 5% Butyl Acetate R6K18

Reduce with Butyl Acetate, R6K18 or MAK, R6K30 to maintain HAPS compliance. Toluene, Xylene or High Flash Naphtha 100 may also be used, but are not HAPS compliant.

**Pot Life:** 24 hours

**Package Life:** 24 months, unopened

### SPECIFICATIONS

**Wood** (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%.

**Finishing System:**
1. **Sealer**—Catalyze and reduce Varnish as a sealer. Spray a full wet coat. Air dry 30 minutes or force dry 5-20 minutes at 110°-160°F.
2. Sand with 220-280 grit paper, remove sanding dust.
3. **Topcoat**—Catalyze Sher-Wood Water White Conversion Varnish as a topcoat. For more depth apply a second coat.
4. Allow overnight dry before packing or stacking. Force drying may be used.
5. Maximum dry film thickness of the system must not exceed 4 mils because heavier films may cause cracking.

**Testing:** Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

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**Air Quality Data (Theoretical):**
- Photochemically reactive
- Volatile Organic Compounds (VOC) as packaged, maximum, less exempt solvents: <4.6 lb/gal, 550 g/L
- Hazardous Air Pollutants (HAPS) as catalyzed and reduced with Butyl Acetate R6K18: <0.8 lb. per pound of solids

An Environmental Data Sheet is available from your local Sherwin-Williams facility.

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**Note:** Sher-Wood Vinyl Sealers T67F3, T67F5, T67F6 and T67F7 may also be used as a sealer under Water White Conversion Varnish. These sealers must be catalyzed when used under Sher-Wood catalyzed topcoats. Consult the corresponding sealer data page for details.


An Environmental Data Sheet is available from your local Sherwin-Williams facility.
**APPLICATION**

**Conventional Spray:**
- Air Pressure: 40-50 psi
- Fluid Pressure: 6-8 psi

**Airless Spray:**
- Pressure: 1200-1800 psi
- Tip: 0.011-.015"

**Air Assisted Airless:**
- Assist Air Pressure: 10-25 psi
- Fluid Pressure: 400-800 psi
- Cap/Tip: 0.011-.015"

**Electrostatic Spray:**
- Substrate must be conductive.

**Cleanup:**
- Clean tools/equipment immediately after use Butyl Acetate, or HAPS free Lacquer Thinner R7K305.

Follow manufacturer's safety recommendations when using any solvent.

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**SPECIFICATIONS**

**Performance Tests:**
- Cold Check Resistance: 20 cycles
- Print Resistance: No print
- 18 hours air dry, at 2 psi at 77°F in direct contact with 8 oz. duck cloth.

**Household Chemicals Test:**
- Panels were aged 30 days at 77°F, 5 drops of each item were placed under a watch glass for one hour. Film was rinsed with warm water and soap, dried, and wiped with VM&P Naphtha to remove items not removed with water.
- Household Ammonia: no visual effect
- Vinegar: no visual effect
- Lipstick: no visual effect
- Lemon Juice: no visual effect
- Mayonnaise: no visual effect
- Mercurychrome 2%: no visual effect
- Red Ink: no visual effect
- Washable Blue Ink: no visual effect
- Mustard: no visual effect
- Oil Base Paint: no visual effect
- Latex Emulsion Paint: no visual effect
- VM&P Naphtha: no visual effect
- Turpentine: no visual effect
- Orange Crayon: no visual effect
- Carbon Tetrachloride: no visual effect
- Sodium Carbonate: no visual effect
- Sour Milk: no visual effect
- Margarine: no visual effect
- Butter: no visual effect
- Water: no visual effect
- Cooking fat: no visual effect

Note: HAPS Free Reducer R7K305 can be used to maintain low HAPS. MAK R6K30 and EEP R6K35 can be used to retard the coating system and maintain low HAPS. Acetone R6K9 can be used as a HAPS and VOC exempt solvent.

**Product Limitations:**
- Sher-Wood Water White Conversion Varnish must be catalyzed 3% with Sher-Wood KemVar Catalyst V66V21. Do not over catalyze. Do not use any other catalyst.
- Do not use over conventional nitrocellulose lacquer sealers. Seal with Sher-Wood Vinyl Sealers T67F3, T67F5, T67F6 or T67F7 catalyzed, or conversion varnish.
- KemVar Catalyst V66V21 is an acid. To prevent acid corrosion and pitting, all equipment should be made of stainless steel. Containers and piping should be stainless steel or plastic.
- KemVar "M" should be used.
- While catalyzed varnish remains a low viscosity liquid beyond 24 hours, it should not be used after 24 hours because a chemical reaction is taking place. The resultant film may have inferior cure and crosslinking and a tendency for long-term cold checking.
- To extend the use life at the end of the day, add 300-400% of uncatalyzed material. Add catalyst based only on the uncatalyzed portion when ready to use the next day. Refrigeration also extends the working potlife.
- Do not use in recirculating systems such as flocoaters or curtain coaters. Recirculating paint lines are acceptable.
- Temperature must be above 70°F during application and cure to ensure acceptable coating properties. Coatings cured a lower temperatures are prone to cracking, checking and brittleness.
- Natural finished wood will change color on aging and exposure to light. This is a natural phenomenon. Clear finishes will not prevent the wood from changing color.
- Maximum dry film thickness of the coating system is 4.0 mils.

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**FOR INDUSTRIAL SHOP APPLICATION**

Thoroughly review product label and Material Safety Data Sheet (MSDS) for safety and caution 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.