



# Chemical Coatings

## CC-F43 SHER-WOOD® Catalyzed Lacquer (Precat)

Gloss ..... T77C35  
 Bright Rubbed Effect ..... T77F36  
 Medium Rubbed Effect ..... T77F37  
 Dull Rubbed Effect ..... T77F38  
 Catalyst ..... V66V22

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p><b>SHER-WOOD® Catalyzed Lacquer (Precat)</b> is a fast drying, high performance, conversion lacquer for the general wood finishing market. After catalyzed, it provides 6 months pot life as a precat lacquer.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Meets KCMA specifications as a self-sealed system or over Sher-Wood Vinyl Sealer, T67F3, T67F5 or T67F6, as a system</li> <li>• HAPS Free</li> <li>• Precatalyzed lacquer with 6 months working pot life</li> <li>• Very fast dry to sanding and packing - like nitrocellulose lacquer</li> <li>• Ready to spray. No reduction needed</li> <li>• Good resistance to household stains</li> <li>• Good flexibility - passes 20 cold check cycles</li> <li>• Versatile application - may be applied by conventional, airless, air-assisted airless and HVLP spray methods</li> <li>• Pale water white color</li> <li>• Ideal for kitchen cabinets, vanities, chairs, office furniture, household furniture, novelties, and a wide range of interior wood products</li> </ul>	<p><b>Gloss (measured on black glass):</b>        Gloss 80+ units        BRE 55-59 units        MRE 30-34 units        DRE 17-21 units</p> <p><b>Weight Solids:</b> 28.6 ± 2%  <b>Volume Solids:</b> 20.5 ± 2%</p> <p><b>Viscosity:</b>        27-32 seconds #2 Zahn Cup        26-30 seconds #4 Ford Cup</p> <p><b>Recommended film thickness per coat:</b>        Mils Wet 4.0 - 6.0        Mils Dry 0.75 - 1.1</p> <p><b>Spreading Rate</b> (no application loss)        @ 0.75-1.1 mil dft: 246-362 sq ft/gal</p> <p><b>Drying (77°F, 50% RH):</b>        To Touch: 5-10 minutes        To Handle: 15-20 minutes        To Sand: 20-40 minutes        To Recoat: 20-40 minutes        Force Dry: 5-10 minutes at (110-140°F), then air dry 1 hour minimum to pack</p> <p><b>Flash Point:</b> 4°F Pensky-Martens Closed Cup</p> <p><b>Mixing Ratio:</b>        1 gallon Lacquer        1.5 oz Catalyst, V66V22</p> <p><b>Pot Life:</b> 6 months</p> <p><b>Package Life:</b>        uncatalyzed 2 years        catalyzed 6 months</p> <p><b>Air Quality Data:</b>        Non-photochemically reactive        Volatile Organic Compounds (VOC) as packaged, maximum        5.03 lb/gal, 603 g/L        2.38 lbs VOC/lb solids        Hazardous Air Pollutants (HAPS) as packaged, HAPS Free</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, 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></p> <ol style="list-style-type: none"> <li>1. Color wood—stain or tone as desired and dry thoroughly.</li> <li>2. Seal—Apply Catalyzed Lacquer (Precat) as sealer or Sher-Wood Fast Dry Vinyl Sealer T67F6 (consult corresponding data page for details). Spray a full wet coat. Air dry 30 minutes.</li> <li>3. Sand with 240 grit or equivalent, remove sanding dust.</li> <li>4. Topcoat—Spray a full wet coat of catalyzed lacquer (PreCat) at 4.0-6.0 mils wet.</li> <li>5. For more depth or build apply an additional coat. Do not exceed 4.0 mils DFT for the total system.</li> </ol>

## APPLICATION

### Typical Setups

**THIS PRODUCT MUST BE CATALYZED. DETERMINE IF IT HAS BEEN CATALYZED.** If not, catalyze 1.2% (1.5 oz/gal) With Sher-Wood Precat Catalyst, V66V22. Pot life after catalyzation is 6 months. Record the catalyzation date on the sticker on the container.

**Reduction:** Product is normally applied without reduction. If reduction is needed to optimize application, use 5-10% HAPS Compliant Lacquer Thinner R7K320. Contact your Sherwin-Williams Representative for additional solvent reduction options.

#### Conventional Spray:

Air Pressure ..... 35-60 psi  
Fluid Pressure ..... 6-10 psi

#### Airless Spray:

Pressure ..... 1500-1800 psi  
Tip ..... .011 - .013"

#### Air Assisted Airless:

Air Pressure ..... 20-30 psi  
Fluid Pressure ..... 500-900 psi  
Tip ..... .011 - .013"

#### HVLP: Binks Mach I

Atomizing Pressure ..... 9 psi  
Fluid Pressure ..... 12 psi  
Cap/Tip ..... 97AP Blue Max/94

#### Cleanup:

Clean tools/equipment immediately after use with HAPS complying lacquer thinner, R7K320 or R7K322. Lacquer thinner K120 or K22 may also be used, but are not HAPS compliant.

Follow manufacturer's safety recommendations when using any solvent.

#### Performance Tests:

##### Household Chemicals Test

Using ANSI-KCMA A161.1995 test procedures, panels were cured by air drying and allowed to age 10 days at ambient conditions before testing. Tests were conducted on self-sealed (2 coat) finished panels at 2.0 mils total DFT. Materials were washed off with clear water after 24 hours.

Vinegar .....	no effect
Lemon Juice .....	no effect
Orange Juice .....	no effect
Grape Juice .....	no effect
Tomato Catsup .....	no effect
Coffee ( @ 115°F) .....	no effect
Olive Oil .....	no effect
100 Proof Alcohol .....	no effect
Water & detergent .....	no effect
Mustard .....	Slight staining

## SPECIFICATIONS

### Product Limitations:

- This product **must** be catalyzed with Sher-Wood Precat Catalyst V66V22 before use at a level of 1.2% (1.5 ounces per gallon). Product will typically be catalyzed before delivery to the customer. Complete cross-linking and film properties will not be attained without catalyzation.
- Catalyst must be added by the user or by the Sherwin-Williams outlet.
- This product should be used within 6 months after being catalyzed to obtain optimum properties. The catalyst causes chemical reaction in the package and dissipates after 6 months and performance properties are downgraded. **Adding additional catalyst does not restore film properties.**
- Store at room temperature (under 80°F) after catalyzation. Higher temperatures will reduce the storage life.
- Self seal or apply over Sher-Wood Vinyl Sealer T67F3, T67F5 or T67F6 to meet KCMA requirements.
- To achieve maximum performance properties a minimum of 2 mils DFT is required.
- Total film thickness of systems must not exceed 4 mils dry film because heavier films may show cracking and checking tendencies.
- For interior use only.
- Sher-Wood Precat Catalyst V66V22 is an acid. To prevent acid corrosion and pitting, all equipment should be made of stainless steel. Containers should be stainless steel or plastic.
- Do not catalyze with other acid catalysts because of fast reactivity and pot life problems.
- Maximum cure and chemical resistance is attained after 10 days air drying.
- Natural wood will change color by itself and clear wood finishes will not keep this from occurring.
- To maintain HAPS compliance, only reduce with HAPS compliant reducers.

This finishing lacquer will yellow over time. With wood tone stains, this yellowing actually makes a warmer, softer appearance. Where white stains, pickled finishes, or white basecoats are used, nitrocellulose lacquer should not be used because of the yellowing of the sealer and topcoat may be considered objectionable. For these applications, Sher-Wood Acrylic Conversion Coating 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.

Contents are **EXTREMELY FLAMMABLE**. Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. 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.

**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.21850-051905.

**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.