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WILLIAMS.**

# Industrial Wood Coatings

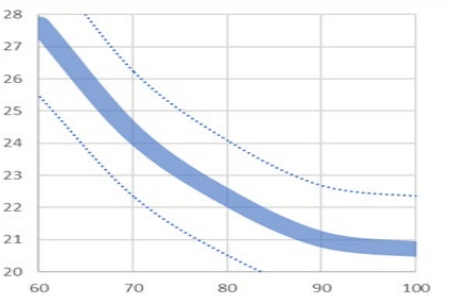
# CC-F43

## SHER-WOOD® Catalyzed Lacquer (Precat)

Gloss.....T77C35  
Dull Rubbed Effect (DRE).....T77F38

Bright Rubbed Effect (BRE).....T77F36  
Custom Blend.....T77FX Series

Medium Rubbed Effect (MRE)...T77F37  
Catalyst.....V66V22

<b>DESCRIPTION</b>	<b>CHARACTERISTICS</b>	<b>SPECIFICATIONS</b>
<p><b>SHER-WOOD® Catalyzed Lacquer (Precat)</b> is a fast drying, high performance, conversion lacquer for the general wood finishing market. After catalyzation, 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 test requirements for finishes as a self-sealed system or over catalyzed Sher-Wood Vinyl Sealer, T67F3, T67F5 or T67F6</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>• Ideal for kitchen cabinets, vanities, chairs, office furniture, household furniture, novelties, and a wide range of interior wood products</li> </ul> <p><b>Air Quality Data:</b></p> <ul style="list-style-type: none"> <li>• Non-photochemically reactive</li> <li>• Volatile Organic Compounds (VOC) theoretical, maximum, less exempt solvents as packaged: 5.47 lb/gal, 656 g/L Catalyzed and reduced (R7K320 at 10%): 5.64 lb/gal, 675 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>VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.</p>	<p><b>Gloss: (measured on black glass)</b> Gloss 85+ units BRE 55-59 units MRE 34-38 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><i>The above chart is for information only and should not be used as product specifications</i></p> <p><b>Recommended film thickness:</b> Mils Wet 4.0 - 6.0 Mils Dry 0.75 - 1.1</p> <p><b>Spreading Rate</b> (no application loss) 246-362 sq ft/gal @ 0.75-1.1 mils DFT</p> <p><b>Drying</b> (77°F, 50% RH): 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 Pinsky-Martens Closed Cup</p> <p><b>Mixing Ratio: (by volume)</b> 1 gallon Lacquer 1.5 oz Catalyst V66V22</p> <p><b>Pot Life:</b> 6 months</p> <p><b>Package Life:</b> 2 years, unopened 6 months, catalyzed</p>	<p><b>Surface preparation:</b></p> <p><b>Wood - New Work</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>Previously finished wood</b> (interior only): Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry. Finish as new work.</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 over catalyzed Sher-Wood Vinyl Sealers, T67F3, T67F5, T67F6. (consult corresponding data page for details). Spray a full wet coat. Air dry 30 minutes.</li> <li>3. Sand - 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. <b>Do not exceed 4.0 mils DFT for the total system.</b></li> </ol> <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

**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.

**Retard:** To retard, use either MAK R6K30 at 5-10%, EEP R6K35 at 2-5% or 2-Butoxyethanol R6K25 at 1-2% by volume.

### **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. 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 A161.1-2012 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 (1 hour) .....Slight staining

## ADDITIONAL INFORMATION

### **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.
- 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 catalyzed 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.
- 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.
- Maximum cure and chemical resistance is attained after 10 days air drying

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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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