



**SHERWIN  
WILLIAMS.**

# Industrial Wood Coatings CC-F414

## SHER-WOOD® Kemvar® 9230S Conversion Varnish

10 Gloss.....V84F90039  
40 Gloss.....V84F90042

20 Gloss.....V84F90041

30 Gloss.....V84F90047

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS
<p><b>SHER-WOOD® Kemvar® 9230S Conversion Varnish</b> is an acid cured conversion varnish for interior woodwork. This fast drying, hi build finish has very good water white, non-yellowing characteristics and can be used as a self sealed system over recommended Sherwin Williams stains, including pastels and whites. SHER-WOOD® KEMVAR® 9230S Conversion Varnish has good sag resistance and is designed for vertical or flat spray applications.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"><li>• Self sealing, easy to sand</li><li>• Meets quality standards for AWI System 4 Conversion Varnish Transparent</li><li>• Meets KCMA and CKCA standards</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 as packaged, maximum less exempt solvents: 4.49 lb/gal, 538 g/L.</li></ul> <p>Volatile Hazardous Air Pollutants (VHAPS) as packaged maximum: less than 0.8 lbs per pound of solids</p> <p>VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations</p> <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><b>Volume Solids:</b> 37 ± 2%</p> <p><b>Weight Solids:</b> 45 ± 2%</p> <p><b>Viscosity:</b> 20-25 seconds #2 Signature Zahn</p> <p><b>Recommended film thickness:</b> Mils Wet 3.0 - 4.0 Mils Dry 1.1 - 1.5</p> <p><b>Spreading Rate (no application loss)</b> 595 sq ft/gal @ 1.0 mils DFT</p> <p><b>Drying (77°F, 50% RH):</b> To Sand and recoat: 2-3 hours Dry to stack: 2-3 hours</p> <p><b>Flash Point:</b> 55°F Pensky-Martens Closed Cup</p> <p><b>Mixing Ratio:</b> 1 part Conversion Varnish 12% (15.4 oz/gal) By Volume Catalyst, Standard Catalyst V66V20005 Slow Catalyst V66V20006 HF Fast Catalyst V66V20007</p> <p>Add catalyst under agitation using graduated cup. Add thinner after catalyzation to desired application viscosity if needed</p> <p><b>Pot Life:</b> 24 hours</p> <p><b>Package Life:</b> 1 year, unopened</p>	<p><b>Surface preparation:</b> <b>Wood - New Work (interior only):</b> 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 (interior only):</b> Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry. Finish as new work.</p> <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, compatability and performance prior to full scale application.</p>

## **APPLICATION**

Typical Setups

### **Reduction:**

Compatible reducers are  
R7K10003 Standard Reducer  
R7K10001 Fast Reducer  
R7K10006 Slow HF Reducer  
R7K10007 Retarder P HF

### **Conventional Spray:**

Air Pressure..... 40 - 50 psi  
Fluid Pressure..... 7-10 psi  
Cap/Tip..... 1.2-1.4

### **Air Assisted Airless:**

Air Pressure..... 11 - 17 psi  
Fluid Pressure.....290 - 580 psi  
Cap/Tip..... .011 - .013

### **HVLP:**

Atomizing Air Pressure at the cap..20-25 psi  
Pot Pressure.....7-10 psi  
Cap/Tip..... 1.2-1.4

### **Recommended application viscosities:**

- Vertical hand spray viscosity:  
Din 4 20-21"  
#4 Ford: 27-28"  
Zahn 2 (Sig.) 29-30"
- Machine spray viscosity:  
Din 4 15-16"  
#4 Ford 18-22"  
Zahn 2 (Sig.) 20-24"

### **Cleanup:**

Clean tools/equipment immediately after use  
with reduction solvent

Follow manufacturer's safety  
Recommendations when using any solvent.

## **ADDITIONAL INFORMATION**

- Catalysts V66V20005, V66V20006 and V66V20007 are acids. To prevent acid corrosion and pitting, all equipment should be made of stainless steel. Containers and piping should be stainless steel or plastic. Acid reacting with iron or steel will cause a discoloration of conversion varnish
- Maximum recommended dry film thickness For total coating system is 6 dry mils. Heavier film build may cause cracking.
- Temperatures must be above 68°F during application and cure to ensure acceptable coating properties
- Can be used over recommended water based and solvent based stains. Consult your Sherwin Williams representative for system recommendations.

All trademarks are the property of their respective owners.

## **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.

**Note:** Each purchase and/or use of products from Sherwin-Williams are exclusively subject to Sherwin-Williams' terms and conditions of sale which can be found here: [www.sherwin-williams.com/terms-and-conditions#standard-tc](http://www.sherwin-williams.com/terms-and-conditions#standard-tc)

Please review these terms and conditions prior to each purchase and/or use of the products.

Sherwin-Williams warrants the product to be manufactured in accordance with Sherwin-Williams' quality control procedures. Except for the preceding sentence, **SHERWIN-WILLIAMS SPECIFICALLY DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

Sherwin-Williams' liability for products will be limited solely to replacement of the defective product or the refund of the purchase price paid for the defective product, as determined by Sherwin-Williams. Under no circumstances shall Sherwin-Williams be liable for indirect, special, incidental, or consequential damages, lost profits or punitive damages arising from any cause whatsoever.