Industrial Wood Coatings CC-F55

SHER-WOOD® KemVar® LF Conversion Varnish

Bright Rubbed Effect V84F96
Catalyst……..……V66V21
HF Fast Catalyst……V66V20007
Medium Rubbed Effect……..V84F97
Standard Catalyst……......V66V20005
Custom Blend……......V84FX Series
Flat……..…..V84F98
Slow Catalyst……..V66V20006

DESCRIPTION

SHER-WOOD®KemVar®LF Water White Conversion Varnish is a low formaldehyde, HAPS Free, water white conversion varnish for coating interior wood products. Water White LF is a pale, clear, catalyzed coating material for finishing natural woods, pickled finishes, and other applications requiring good resistance to discoloration and yellowing. Water White LF offers superior performance properties for kitchen cabinetry, office and institution furniture, and other finished products requiring the benefits of a premium catalyzed coating system.

Advantages:

- Water white formulation containing UV Absorber for enhanced non-yellowing properties
- HAPS Free as packaged (as defined by the National Standards for Hazardous Air Pollutants [HAPS] Emissions for Wood Furniture Manufacturing Operations 40 CFR 63, Subpart JJ)
- Meets the test requirements of the Kitchen Cabinet Manufacturers Association (KCMA)
- Use as a multicoat, self-seal system or over recommended Sher-Wood catalyzed vinyl sealer
- High build and good vertical hang characteristics
- Production line drying characteristics for faster dry-to-sand times and early hardness development
- Good moisture, household chemical and cold check resistance

Air Quality Data:

- Non-photochemically reactive
- Volatile Organic Compounds (VOC) Theoretical as packaged, maximum, less exempt solvents: 4.40 lb/gal, 528 g/L
- Hazardous Air Pollutants (HAPS) as Packaged: 0;0 lbs/lb solids

VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations

An Environmental Data Sheet is available from your local Sherwin-Williams facility, or at www.paintdocs.com.

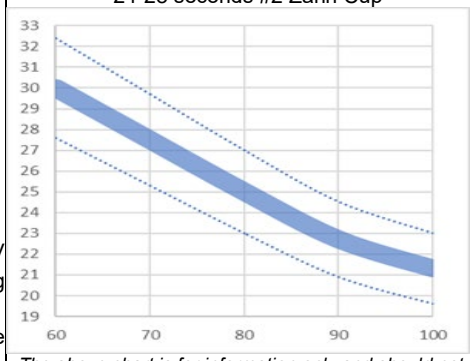
CHARACTERISTICS

Gloss:

BRE	55-59 units
MRE	34-38 units
Flat	3-8 units

Volume Solids: 29 ± 1%

Package Viscosity:
24-28 seconds #2 Zahn Cup



The above chart is for information only and should not be used as product specifications

Recommended film thickness:

Mils Wet	3.0 - 5.0
Mils Dry	0.8 – 1.4

Spreading Rate (no application loss)
465 sq ft/gal @ 1.0 mils DFT

Drying (1.5 mils, 77°F, 50% RH):

To Touch:	10-15 minutes
To Handle:	20-30 minutes
To Sand:	20-45 minutes
To Recoat:	30-45 minutes
To Rub:	8 hours
To Pack:	8 hours

Force Drying: Flash 10 minutes
15 minutes at 125° F
Air Dry 2 hours before packing

Flash Point: 4°F PMCC

Package Life: 24 months, unopened

.

CHARACTERISTICS (cont)

Mixing Ratio:

Catalyze	
1 part	Conversion Varnish
3% (3.84 oz/gal)	V66V21 (by volume)
Or	
10% (12.8 oz/gal) (by volume)	V66V20005 V66V20006 V66V20007

Pot Life: 24 hours

SPECIFICATIONS

Surface preparation:
Wood - New Work (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%.
Previously finished wood (interior only)**:** Strip old finishes completely and remove all contaminants from the surface. Make sure surface is dry. Finish as new work.

Finishing System:

1. Color Wood - Stain or tone as desired and dry thoroughly.
2. Seal - Apply KemVar LF as a sealer or use vinyl sealers (catalyzed): T67F3, T67F5 or T67F6. **These sealers must be catalyzed when used under Sher-Wood catalyzed topcoats. Consult the corresponding sealer data page for details.**
3. Air dry 30 minutes, sand seal coat with 240 grit or equivalent, remove sanding dust.
4. Topcoat - Apply KemVar LF at 3.0 - 5.0 mils wet.
5. For more depth or build apply an additional coat. Do not exceed 4.0 mils dft for the total system.

Testing: 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

continued on back

APPLICATION

Typical Setups

Conventional Spray:
Air Pressure ..... .40-50 psi
Fluid Pressure..... 6-8 psi
Airless Spray:
Pressure ..... 1200-1800 psi
Tip.....011-.015"
Air Assisted Airless:
Assist Air Pressure..... 10-25 psi
Fluid Pressure..... 400-800 psi
Cap/Tip .....011-.015"
HVLP:
Air Pressure .....4-9 psi
Fluid Pressure..... 10-12 psi
Cleanup:
Clean tools/equipment immediately after use with R7K305, Lacquer Thinner R7K320 or Butyl Acetate R6K18.

REDUCING OPTIONS

Reduce 5-20% with listed solvents to adjust drying and or build.
R6K9.....Acetone
R6K18..... Butyl Acetate
R7K305..... Lacquer Thinner

RETARDING OPTIONS

Retard 5-10% with listed solvents.
R6K30..... MAK
R6K35.....EEP
Follow manufacturer's safety recommendations when using any solvent.

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.
Detergent/Water Resistance
Edge Soak Test.....no film failure
Minimum of 2.0 dry mils, cured 10 days at 77°F
Household Chemicals Test
Panels were aged 30 days at 77°F, 5 drops of each item was placed under a watch glass for one hour. Film was rinsed with water, washed 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
50% Ethyl Alcohol ..... no visual effect
Mercurochrome 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
Mayonnaise..... no visual effect
10% 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

SPECIFICATIONS(cont)

- SHER-WOOD® Water White Conversion Varnish must be catalyzed 3% with SHER WOOD® KEMVAR® Catalyst V66V21 or 10% with V66V20005, V66V20006 or V66V20007 Do not over catalyze. **Do not use any other catalyst.**
- KEMVAR Catalyst V66V21, 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.
- For interior use only.
- To extend the pot life at the end of the day, add 100% of uncatalyzed material. The next day, add catalyst based only on the uncatalyzed portion when ready to use
- **Temperature must be above 70°F during application and cure to ensure acceptable coating properties. Coatings cured at lower temperatures are prone to cracking, checking and brittleness.**
- Non-yellowing is relative, not absolute terminology. This quality formulation provides UV resistance superior to most standard type nitrocellulose containing precatalyzed lacquers, CAB Acrylic lacquers and Water White varnishes that do not contain UV absorbers.
- To achieve optimum film properties a minimum of 2.0 mils DFT is required.
- Maximum dry film thickness must not exceed 4.0 mils, heavier films may crack.
- If a repair coat is necessary, further reduce the material to keep the total DFT at 4.0 mils or less.

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.

Please direct any questions or comments to your local Sherwin-Williams facility.

Note: All purchases of products from Sherwin-Williams are exclusively subject to Sherwin-Williams' terms and conditions of sale which can be found by following this link (click here) Please review these terms and conditions prior to the purchase of the products.

Sherwin-Williams warrants the product to be free of manufacturing defect in accordance with Sherwin-Williams' quality control procedures. Except for the preceding sentence, due to factors that are outside of Sherwin-Williams' control, including substrate selection, and customer handling, preparation, and application, Sherwin- Williams cannot make any other warranties related to the product or the performance of the product. **SHERWIN-WILLIAMS 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.**

Liability for products proven to be defectively manufactured 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 dam- ages arising from any cause whatsoever.