



**SHERWIN
WILLIAMS.**

Industrial Wood Coatings

CC-F73

SHER-WOOD® F3 KEMVAR® VARNISH

Medium Rubbed EffectV85F302

Dull Rubbed Effect.....V85F303
She-Wood F3 Catalys.....V66V72

Super KemVar Catalyst.....V66V26
Custom BlendV85XX Series

DESCRIPTION

SHER-WOOD® F3 KEMVAR® Varnish is a formaldehyde free conversion varnish coating designed for coating interior woodworking.

Advantages:

- Formaldehyde free coating at application and on cured parts
- Contains U.V. Absorber for added wood protection
- Meets KCMA test requirements for finishes as a self-seal system, or when used over F3 KEMVAR Sealer, T85F300
- Ready to apply following catalyzation, no reduction required
- UL GREENGUARD Gold Certified for low chemical emissions



Air Quality Data:

- Photochemically Reactive
- Volatile Organic Compounds (VOC) theoretical as packaged, less exempt solvents maximum: 5.00 lb/gal, 599 g/L
- Volatile Hazardous Air Pollutants (VHAPS) as packaged, less than 0.80 lbs/lb of solids

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

CHARACTERISTICS

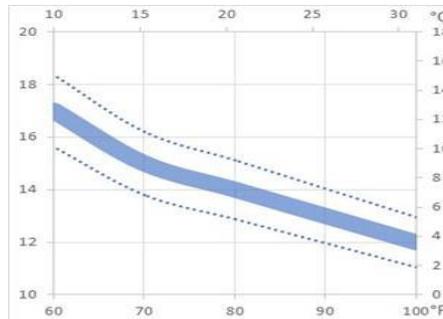
Gloss:

MRE - 34-38 units
DRE - 17-21 units

Volume Solids: 30 ± 2% may vary

Viscosity:

16-19 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
0.9 - 1.5

Apply as a sealer at 3-4 mils wet for best air release and fast dry to sand time. Maximum DFT for the total system is 4.0 mils dry.

Spreading Rate (no application loss) 300-500 sq ft/gal @ 0.9-1.5 mils DFT

Drying (77°F, 50% RH):

To Touch:	15-20 minutes	To
Handle:	30-45 minutes	To
Sand:	30-45 minutes	To
Recoat:	30-45 minutes	To
Pack:	8 hours minimum	
Force Dry:	Flash 10 minutes, bake 10 minutes at 120-140°F	
	24 hours	

Pot Life:

Mixing Ratio:

1 Part F3 KEMVAR Varnish
5% by volume (6.4 ounces per gallon)
V66V72 F3Catalyst

or

6.7% by volume (8.6 oz/gallon)
Super KemVar Catalyst V66V26

Flash Point: 61°F PMCC Package
Life: 1 year, unopened

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:

- Color Wood – Stain or tone as desired and dry thoroughly.
- Seal – Apply a full coat of F3 KemVar Varnish as a sealer or F3 KemVar Sealer (T85F300) at 3.0 – 5.0 mils wet. See sealer data sheet for details.
- Air dry 30-45 minutes, sand with 240, 320, or sponges as required.
- Topcoat – apply F3 KemVar Varnish at 3.0 - 5.0 mils wet.
- For more depth or build, sand and 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.

APPLICATION

Typical Setups

Conventional Spray:

Air Pressure..... 40-50 psi
Fluid Pressure 6-8 psi

Airless Spray:

Pressure1200-1800psi
Tip011 - .015"

Air Assisted Airless:

Assist Air Pressure 10-25 psi
Fluid Pressure400-800 psi
Cap/Tip011-.015"

HVLP:

Air Pressure..... 4-9 psi
Fluid Pressure 10-12 psi

Reducing Options: Reduce 3-5% to adjust drying or build with Butyl Acetate (R6K18) or MAK (R6K30).

Retarding Options: Retard 1-3% with 2-Butoxyethanol (R6K25) as required.

Decatalyzation Procedure:

Dilute catalyzed material 100% with uncatalyzed material. This will stabilize this material for 24 hours. Add catalyst for only the uncatalyzed volume the next day. Agitate thoroughly.

Do not save catalyzed material over the weekend.

Cleanup:

Clean tools/equipment immediately after use with Butyl Acetate (R6K18) or MAK (R6K30).

Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

- Sher-Wood F3 KemVar Varnish must be catalyzed with 5.0% V66V72 Sher-Wood F3 Catalyst or 6.7% V66V26 Sher-Wood Super KemVar Catalyst. Do not over-catalyze. Do not use any other catalyst
- Sher-Wood F3 KemVar Catalyst is a dark amber colored acid catalyst solution and Super KemVar Catalyst is an acid catalyst solution. To prevent acid corrosion, discoloration and pitting all equipment should be stainless steel. Containers and piping should be stainless steel or plastic.
- **Do not use KemVar Catalyst – V66V21 with the F3 KemVar Varnish materials.**
- V66V21 will cause the F3 KemVar Varnish to acid bloom and crack.
- **Color:** Sher-Wood F3 KemVar Varnish is not water white and may change the appearance of pigmented basecoats, surfacers, stains, and glazes. This product does yellow when used over white or pastel stains and basecoats. The final color should be approved after applying finish coats of F3 KemVar Varnish to the surface.
- For interior use only.
- Temperature must be above 70°F during application and curing to ensure acceptable coating properties. Coatings cured at lower temperatures are prone to cracking, checking and brittleness.
- Maximum dry film thickness of the coating system is 4.0 dry mils.
- To maintain formaldehyde free status, only recommended solvents may be added. Solvents such as Acetone or EEP may contain trace amounts of formaldehyde.

Performance Tests:

Cold Checks 20 cycles pass
Edge Soak pass

Household Chemical Test

ANSI-KCMA A161.1- 2012 test procedures: Following 10 days air dried panels, self-sealed (2 coats) with 2.0-3.0 dry mils of coating. Materials were washed off with clear water after the 24 hour test cycle and evaluated.

Vinegar no effect
Lemon Juice no effect
Orange Juice no effect
Grape Juice no effect
Tomato Catsup no effect
Coffee @ 115F no effect
Olive Oil no effect
100 Proof Alcohol..... no effect
Water & Detergent no effect
Mustard (1 hour)slight stain, recovered

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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.

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

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