# Product Finishes

CC-F32

# SHER-WOOD® KEMVAR® Primer Surfacer

White ..... E63W5
Catalyst..... V66V21

## DESCRIPTION

**SHER-WOOD® KEMVAR® Primer Surfacer** is a high solids, acid catalyzed, primer surfacer designed for application on particle board, medium density fiberboard, veneers and solid hardwood and softwood surfaces.

**Advantages:**

- Meets the Federal HAPS rule for wood finishes as packaged*
- Good filling properties
- High solids wood surfacer
- Fast drying
- Excellent holdout
- Excellent sanding - powders easily
- Air dry or force dry cure
- Excellent adhesion to a wide range of bare wood surfaces
- Excellent anti-settling properties
- Versatile - may be applied using conventional, airless, air assisted airless or HVLP spray methods
- Very good edge filling on MDF when presealed with vinyl washcoat
- Meets KCMA performance properties when topcoated with Sher-Wood Pigmented Conversion Varnish
- Ideal for kitchen cabinets, vanities, office furniture, household furniture and a wide array of interior wood products
- Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303.

*National Standards for Hazardous Air Pollutants (HAPS) Emissions for Wood Furniture Manufacturing Operations CFR40, Part 63, Subpart JJ

## CHARACTERISTICS

**loss:** Flat
**Volume Solids:** 38 ± 1%
**Viscosity**:
20-25 seconds #4 Ford Cup
**Recommended film thickness:**
Mils Wet 3.0 - 5.0
Mils Dry 1.1 - 1.9
**Spreading Rate** (no application loss)
312-569 sq ft/gal @ 1.1-1.9 mils DFT
**Drying** (1.5 mils dft, 77°F, 50% RH):
To Touch: 5-10 minutes
To Handle: 15-20 minutes
To Sand: 25-30 minutes
To Recoat: 30 minutes
Force Dry: 15 minutes at 120°F or 10 minutes at 150° F, to sand
**Flash Point:** 51°F Pensky Martens Closed Cup
**Mixing Ratio:**
1 part Primer Surfacer
5% Catalyst, V66V21 (6.4 oz/gallon)
**Pot Life:** 24 hours
**Package Life**: 1 year, unopened

**Air Quality Data:** (Theoretical)

- Photochemically reactive
- Volatile Organic Compounds (VOC) as packaged, maximum (theoretical) 4.6 lb/gal, 550 g/L
  Catalyzed 5% with V66V21, maximum 4.6 lb/gal, 550 g/L
- Hazardous Air Pollutants (HAPS) as packaged, maximum less than 0.8 lbs per pound of solids

An Environmental Data Sheet is available from your local Sherwin-Williams facility.

## SPECIFICATIONS

**Wood** (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%.

**Testing:** Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

**Finishing System:**

1. Apply 1 coat of catalyzed Primer Surfacer at 3.0 - 5.0 mils wet. Allow to dry for sanding. A second coat of Primer Surfacer may be applied after sanding if needed for additional filling. Sand again before topcoating.
2. Sand with 220-280 grit paper and remove all sanding dust. If a wet look is desired, sand final primer coat with 500-600 grit paper.
3. Topcoat with Sher-Wood Pigmented Conversion Varnish.


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## APPLICATION

Typical Setups

**Reduction:** Reduction is normally not needed. If required, reduce up tp 10% with Butyl Acetate R6K18, EEP Reducer R6K35 or MAK R6K30. Xylene or High Flash Naphtha may also be used, but are not HAPS compliant.

**May be applied using:**
Conventional Spray
Airless Spray
Air Assisted Airless
HVLP

**Cleanup:**
Clean tools/equipment immediately after use with HAPS Compliant Lacquer Thinner R7K320. Lacquer Thinner R7K120 or R7K22 may also be used, but are not HAPS compliant.
Follow manufacturer's safety recommendations when using any solvent.

## SPECIFICATIONS

Typical Setups

**Product Limitations:**

- Sher-Wood KemVar Primer Surfacer must be catalyzed 5% with KemVar Catalyst V66V21 for cure.
- Paint temperature and air temperature must be above 70°F during application and cure to ensure acceptable coating properties.
- Do not over-catalyze, it may cause cracking, retard drying and shorten working pot life.
- Apply directly to bare, finish sanded wood surfaces only.
- KemVar Catalyst V66V21 is an acid. To prevent acid corrosion and pitting, all equipment should be made of stainless steel or plastic.
- Do not use Sher-Wood Catalyst V66V26. It will give much slower drying and cure.
- Do not exceed 2.0 mils dry film per coat because heavy films will result in slower drying and sanding times.
- Do not use in recirculating systems such as flocoaters or curtain coaters because of accelerated cure due to aeration. Recirculating paint lines are acceptable.
- Working pot life is 24 hours maximum at 77°F. While catalyzed surfacer remains a low viscosity liquid beyond 24 hours, it should not be used beyond pot life because a chemical reaction is taking place. The resultant film may have inferior cure and cross-linking and a tendency for long-term cracking. At higher temperatures, working pot life is much shorter.
- To extend the pot life at the end of the day, add 300-400% of uncatalyzed material. Add catalyst based only on the uncatalyzed portion when ready to use the next day. Refrigeration also extends the working pot life.
- Sand within 4 hours of topcoating to ensure optimum intercoat adhesion properties.
- Total film thickness of the system (Primer Surfacer and topcoat) must not exceed 4.0 mils dry film. If two coats of Primer Surfacer are used, a substantial portion must be sanded before topcoating. Higher film thicknesses may cause long term cracking and checking.
- Routed MDF must be pre-sealed with Vinyl Sealer reduced 50-100% prior to using KemVar Primer Surfacer E63W5.
- To maintain HAPS compliance only reduce with HAPS compliant reducers.
- For interior use only.

## CAUTIONS

**FOR INDUSTRIAL SHOP APPLICATION**

Thoroughly review product label and Material Safety Data Sheet (MSDS) 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.

**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.