



**SHERWIN
WILLIAMS®**

PRODUCT FINISHES

Kem Aqua® Plus

M64WL574.....Birch Bark

DESCRIPTION

SHER-WOOD® KEM AQUA® PLUS

M64WL574 Birch Bark is a high quality water reducible pigmented white for finishing furniture, cabinets, and a wide variety of wood and novelty items. This high quality topcoat provides excellent appearance and performance over Sher-Wood® Kem Aqua® Plus Surfacer.

Advantages:

- Meets Kitchen Cabinet Manufacturers Association (KCMA) over Sher-Wood® Kem Aqua® Plus Surfacer.
- VOC as packaged <2.0 lb/gal, 240 g/L*
- Very good resistance to yellowing.
- Excellent hardness, block resistance and print resistance.
- Excellent mar resistance.
- Good flow and leveling.
- Better resistance to microfoaming than other latex coatings.

CHARACTERISTICS

Gloss: 25 – 35 @ 60 deg.
Volume Solids: 32.0 ± 2%
Weight Solids: 42.6 ± 2%
Viscosity: 18 – 22 Seconds Zahn 3

Recommended film thickness:

Mils Wet 1.5 – 4.5
Mils Dry 0.5 – 1.6

Spreading Rate (no application loss)
516 sq ft/gal @ 1 mil dry

Drying (77°F, 50% RH):

To Touch: 20 – 30 minutes
To Handle: 30 - 40 minutes
Tack Free: 30 - 40 minutes
To Sand: 30 - 40 minutes
To Recoat: 30 minutes
Force Dry: 10 - 20 min @ 120°F

This product dries primarily by water evaporation. Best drying occurs at 50% RH or lower and temperatures of 77°F or higher. Good air movement is essential for complete drying.

When humid shop conditions exist, lower relative humidity is achieved only by raising the temperature 10-30°F and ventilating out the excess moisture.

Flash Point: None

Package Life: 1 year, unopened, inside storage

Freeze/Thaw: 0 cycles

Air Quality Data:

- Non-photochemically reactive
- Volatile Organic Compounds (VOC)
Theoretical as packaged, less water and exempt solvents 1.95 lb/gal, 234 g/L
- Volatile Hazardous Air Pollutants (VHAPS) as packaged, no reportable VHAPS

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%.

Wood Finishing System:

- 1 Seal—apply Sher-Wood Kem Aqua Plus Surfacer at 4.0-5.0 mils wet. Air dry with good air movement. Sand with 240 grit paper and remove all sanding dust.
2. Topcoat - apply topcoat Sher-Wood Kem Aqua Plus White at 3.0-4.0 mils wet. Dry with good air movement. Apply an additional topcoat for greater build and fill depth. Allow 30 minutes drying between coats.
3. Sher-Wood® Kem Aqua® Plus Clear can also be used as a final coat for additional performance properties.
4. Maximum dry film thickness of the system must not exceed 4 mils dry.

NOTE: Do not use Kem Aqua® Clear Lacquer over Kem Aqua® Plus Surfacer or Kem Aqua® Plus White. These systems are not compatible and will discolor. Kem Aqua® Plus Clear can be used as a final coat over Kem Aqua® Plus White.

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.

*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

APPLICATION

Typical Setups

Reduction: Apply full body. If reduction is needed to optimize application, use up to 2% water. To ensure optimal performance and stability it is recommended to use deionized water for reduction. Product can be retarded with (DPM) Dipropylene Glycol Monomethyl Ether, or Butyl Cellosolve (R6K25). Add up to 2% by volume under mechanical agitation. These solvents will also improve air release.

May be applied by:

Conventional Spray
Airless Spray
Air Assisted Airless
Vacuum Coater
Curtain Coat
Fan Coat

Conventional Spray:

Air Pressure..... 45 – 55 psi
Fluid Pressure 8 – 10 psi
Tip..... .055 to 0.070

Airless Spray:

Pressure..... 1500 - 1800 psi
Tip013 - .015 "

Air Assisted Airless:

Air Assist Pressure 15 – 25 psi
Fluid Pressure 400 – 700 psi
Cap/Tip..... .011 - .013"
Reducer..... Not needed
Reduction Rate..... not needed

HVLP:

Air Pressure..... 8 – 10 psi
Fluid Pressure 5 – 10 psi
Cap/Tip..... 0.055 to 0.070

Some applications and equipment setups, especially air assisted airless and airless, may be prone to microfoaming of the wet film, which will give lower gloss and clarity. Do not use higher pressures than needed for atomization.

Clean-Up: Flush spray equipment completely with water followed by flushing with a 2:1 blend of water and Butyl Cellosolve to remove water residue and to prevent rusting.

Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

- Not recommended for exterior use.
- Use stainless steel spray equipment.
- Tank, piping and containers should be lined steel or plastic.
- Mix thoroughly prior to use. Avoid vigorous agitation, which may cause bubbling or foaming.
- Must not be exposed to freezing temperatures. Store inside.
- The customer is urged to pretest the system under shop conditions.
- Excessive wet film thickness (>4.0 mils wet) may sag.
- Maximum dry film thickness of coating system is 4.0 mils.
- Very low humidity may cause mudcracking and poor film properties.
- When finishing Redwood, Red or White Oak, Pine and Cedar Wood With water based finishes, tannins may be extracted from the wood by the water and cause staining and/or discoloration. This tannin bleed is most evident with white topcoats. Sher-Wood Kem Aqua Plus Surfacer E64W520 must be used to prevent tannin discoloration.
- Products must be air dried at least overnight with good air movement before stacking or packing.
- May be tinted with up to 4 ounces of Kem Aqua® Colorants, ColorCast Ecotoner® or Blend-a-Color® (BAC) colorants per gallon.
- Do not blend in any ratio with Sher-Wood Kem Aqua Lacquer as they are incompatible.
- Sher-Wood Kem Aqua Plus Whites and Sher-Wood Kem Aqua Plus Clears may be blended together in any ratio to expand color capability.

CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION

Thoroughly review product label and Safety Data Sheet (SDS) for safety and cautions prior to using this product.

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

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.

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