



**SHERWIN
WILLIAMS.**

Product Finishes

Kem Aqua® Plus Brilliant White Mid Gloss – M64WL0890

DESCRIPTION

KEM AQUA® Plus Brilliant White Mid Gloss 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.
- Excellent mar resistance.
- Better resistance to microfoaming than other latex coatings.
- Excellent hardness, block resistance and print resistance.
- Good flow and leveling.
- Good flexibility – passes 20 KCMA Cold Check cycles.
- Meets the Federal HAPS** rule for Wood finishes as packaged.
- Very good resistance to yellow.
- Very low VOC* - <2 lb/gal.
- Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303.

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

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

CHARACTERISTICS

Gloss: Mid Gloss 45-50 units

Volume Solids: 31.6 ± 1%

Weight Solids: 42.0 ± 1%

Viscosity:

18-22 seconds #3 Zahn Cup

Recommended film thickness:

Mils Wet 3.0 – 4.0

Mils Dry 1.0 – 1.25

Spreading Rate (no application loss)

392-523 sq ft/gal @ 1.0-1.25 mils DFT

Drying (77°F, 50% RH):

To Touch: 15 minutes

To Handle: 20 minutes

To Sand: 22-25 minutes

To Recoat: 25 minutes

To Pack: 8-12 hours

Force Dry: 10-20 minutes at 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: (Theoretical)

Non-photochemically reactive

Volatile Organic Compounds (VOC)

as packaged, maximum, less water and

exempt solvents 1.92 lb/gal, 230 g/L

VOC (emitted) as packaged, maximum

.79 lb/gal, 95 g/L

Volatile Hazardous Air Pollutants (VHAPS)

as packaged no reportable VHAPS

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 and compatibility prior to full scale application.

Wood Finishing System :

- 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.
- 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.
- Sher-Wood® Kem Aqua® Plus Clear can also be used as a final coat for additional performance properties.

Maximum dry film thickness of coating system is 4.0 mils.

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.

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APPLICATION

Typical Setups

Reduction: Apply full body. If reduction is needed to optimize application, use up to 2% water. 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.**

Conventional Spray:

Air Pressure.....45-55 psi
Fluid Pressure8-10 psi
Tip055-.070

Airless Spray:

Pressure 1500-1800 psi
Tip013-0.15"

Air Assisted Airless:

Air Pressure.....15-20 psi
Fluid Pressure400-700 psi
Tip011-.013
Reducer.....water
Reduction Rate..... as needed up to 2%

HVLP:

Air Pressure 8-10 psi
Fluid Pressure5-10 psi
Tip055-.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.

Cleanup:

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.

SPECIFICATIONS

Product Limitations:

- 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 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 mud-cracking 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 not 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.
- To maintain HAPS compliance only reduce with HAPS compliant reducers.
- May be tinted with up to 4 ounces of Kem Aqua® Colorants 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

Thoroughly review product label 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.

Columbus Regional Lab
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