



**SHERWIN
WILLIAMS.**

Product Finishes

KEM AQUA® Exterior Full Gloss

Clear T70CL0509
Black M64BL0543

White Full-Gloss.....M64WL0681

DESCRIPTION

KEM AQUA® Exterior is a one component Top coat. Its intended use is on interior and exterior building components such as shutters, molding, doors, and windows. It can also be used for blending with Solar Reflective colorants up to 8oz/gallon.

Advantages:

- Meets the Federal HAPS rule for wood finishes as packaged*
- Good gloss retention.
- Interior and exterior use.
- Can be used on interior wood with the appropriate primer, basecoat, glaze or stain and proper surface preparation.
- Can be used for both vertical and horizontal application.
- May be used in 1 coat or 2 coats with light sanding between coats.
- Free of lead and chromate hazards
- Can be tinted using up to 8 oz Solar Reflective Colorants

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

CHARACTERISTICS

* may vary by color

Gloss: 70+

Volume Solids (theoretical): *
28.3 – 29.9 ± 2%

Weight Solids: *
32.1 – 40.4 ± 2%

Viscosity:
#3 Zahn Cup 28 – 36s @ 77°F

Recommended film thickness: 2 coats

Mils Wet	8.0 – 10.0
Mils Dry	2.7– 3.5
1 coat	
Mils Wet	3.0 – 4.0
Mils Dry	1.0 – 1.4
2 coat	
Mils Wet	5.0 – 6.0
Mils Dry	1.7 – 2.0

Spreading Rate (no application loss) *
454 – 480 sq ft/gal @ 1 mils DFT

CHARACTERISTICS (cont.)

Drying (77°F, 50% RH):

To Touch: 30-45 minutes
To Handle: 30-45 minutes
Tack Free: 20-35 minutes
To Sand: 45-60 minutes
To Recoat: no critical recoat
To Pack: overnight

Force Dry: 10 minutes at Air Dry
10 minutes at 140°F

Good air movement and humidity control are necessary for proper drying of water reducible coatings.

Do not exceed the heat distortion temperature of the substrate.

Baking Schedule:

Flash off time 12-15 minutes

Flash Point: 499°F Pensky-Martens
Closed Cup

Package Life: 12 months, unopened

Air Quality Data:

Non-photochemically reactive
Volatile Organic Compounds (VOC)
as packaged, maximum*:

0.83 – 0.87 lb/gal, 99 – 104 g/L

Volatile Organic Compounds (VOC)
Less exempt solvents*:

1.98 – 2.29 lb/gal, 237 – 274 g/L

*See MSDS/EDS for specific product

Hazardous Air Pollutants (HAPS)
as packaged, maximum
less than 0.8 lbs per lb of solids

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

SPECIFICATIONS

General: Substrate should be free of grease, oil, dirt, fingerprints, drawing compounds, and any contamination to ensure optimum adhesion and coating performance properties.

SPECIFICATIONS (cont.)

Plastic: Due to the diverse nature of plastic substrates, a coating or coating system must be tested for acceptable adhesion to the substrate prior to use in production. Reground and recycled plastics along with various fire retardants, flowing agents, mold release agents, and foaming/blowing agents will affect coating adhesion. A filler or primer/barrier coat may be required.

Please consult your Sherwin-Williams Product Finishes Sales Representative for system recommendations.

Wood (interior): 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%.

Metal: Consult Metal Preparation Brochure CC-T1 for additional details. Any use over metal must be primed. Compatibility and suitability of each primer should be tested with KEM AQUA® 1K Exterior to insure it meets customer's specifications

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.

APPLICATION

Typical Setups

May be applied by:

Conventional Spray
Airless Spray
Air Assisted Airless
HVLV

Conventional Spray:

Air Pressure.....25 – 60 psi
Fluid Pressure5 – 20 psi
Cap/Tip.....797/FF
Dependent on part size
ReducerWater
Reduction Rate.....as needed up to 5%

Airless Spray:

Pressure>1500psi
Tip Dependent on line speed"
Reducer.....Water
Reduction Rate.....as needed up to 5%
(continued on back)

APPLICATION (cont.)

Air Assisted Airless:

Air Assist Pressure 10 – 20psi
Fluid Pressure 100 – 500psi
Cap/Tip.....Dependent on line speed
Reducer.....Water
Reduction Rate.....as needed up to 5%

HVLP:

Gun Binks Mach 1
Air Pressure at the cap 40 – 65psi
Fluid Pressure 6 – 10psi
Cap/Tip.....95P/97
Reducer.....Water
Reduction Rate.....as needed up to 5%
Excessive agitation or turbulence on part immersion or withdrawal may cause foaming.

Cleanup:

Clean tools/equipment immediately after use with water and butylcellosolve.
Flush equipment with solvent to prevent rusting.

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Product Limitations:

- Product NOT to be used on wood substrates if direct sunlight is present due to the nature of wood substrates.
- Protect from freezing, store inside.
- Do not use untinted Clear products over white. Clear is for Transparent wood colors, only.
- Do no shake or agitate violently, because of tendencies to foaming and air entrapment.

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.

Building Products
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