

NU-WOODTM

SYNTHETIC ARCHITECTURAL MILLWORK

www.nu-wood.com

574.457.2062

sales@nu-wood.com

POLANE® 2K Acrylic Waterborne Enamel

Monochromatics and Clears

White.....	F63WL0504	Black.....	F63BL0504
Yellow Oxide	F63YL0500	Red Oxide.....	F63RL0500
Full Gloss Clear.....	F63CL0500	30-40 Gloss Clear.....	F63TL0500
Catalyst.....	V66VL6		



DESCRIPTION

Polane® 2K Acrylic Waterborne Enamel

HAPS free, <1.0 VOC emitted (catalyzed), two-component high performance polyurethane coatings. All specifications are given on force - dried samples.

Advantages:

- Meets the Federal HAPS rule for wood finishes as packaged* [HAPS free]
- Low VOC at <1.0lbs/gal
- Good gloss and color retention
- Product is designed for interior use.
- Good performance when used exterior.
- Clear and Blend monochromatics
- Can be used on metal, plastic, or wood with the appropriate primer, basecoat, or pretreatment.
- Designed to meet AAMA 623 and 613
- Free of lead and chromate hazards
- Can be blended with up to 8 oz/gal Kem Aqua colorants or Solar Reflective Colorants.

**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*

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CHARACTERISTICS

Gloss 60°:

Monochromatics: 30-40 units
 F63TL0500 Clear: 30-40 units
 F63CL0500 Clear Full - 85 units

Volume Solids: 36 ± 2%
 as packaged and varies
 by color catalyzed &
 reduced

Weight Solids: 40 ± 1%
 as packaged and varies
 by color catalyzed &
 reduced

Viscosity:
 25-30 seconds #2 Zahn Cup

Recommended film thickness:
 Mils Wet 3.0-5.0 mils
 Mils Dry 1.1-1.8 mils

Spreading Rate (no application loss)
 591 sq ft/gal @ 1.0mils DFT
 (theoretical)

Drying (77°F, 50% RH):
 To Touch: 20 – 30 minutes
 To Handle: 40 – 50 minutes
 Tack Free: 30 – 40 minutes
 To Sand: 50 – 60 minutes
 To Recoat: no critical recoat (sand
 between coats)
 To Topcoat: 60 minutes
 To Pack: overnight
 Force Dry: 15 minutes at 140°F

CHARACTERISTICS (cont.)

Fiberglass Cure schedule

15 min @130°F 6B overnite B Pencil
 60 min @130 °F 3B overnite HB Pencil
PVC Cure schedule
 15 min @130°F 2B overnite 2H pencil
 60 min @130°F HB overnite 3H pencil

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 10 minutes
 Bake: 15 minutes at 140°F
 Flash Point: >299°F Pensky-Martens
 Closed Cup

Mixing Ratio:

10 parts Part A
 1 part Part B Catalyst V66VL6
 Mixing Ratio with plural component:
 12 parts Part A
 1 Part Part B Catalyst V66VL6

If you do not use plural component equipment you must mix at least five minutes with good agitation before spraying.

Working Pot Life: Product Dependent
 Monochromatics: 4 – 5 hours
 Clears: 7 – 8 hours

Package Life: 1 year, unopened

Catalyst: 9 month shelf life

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CHARACTERISTICS (cont.)

Air Quality Data:

Non-photochemically reactive
Varies by color and mixing ratio used
please check MSDS for specific colors.

White (10 to 1)

Volatile Organic Compounds (VOC) as packaged, maximum

1.04 lb/gal, 125 g/L

Volatile Organic Emissions as packaged, maximum

.44 lb/gal, 53 g/L

Hazardous Air Pollutants (HAPS) as packaged, is HAPS free.

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, any contamination, and surface passivity treatments to ensure optimum adhesion and coating performance properties. Consult Metal Preparation Brochure CC-T1 for additional details. **Any use over metal must be primed and/or a basecoat applied. Product does not contain flash rust inhibitors so use over any metal must be tested thoroughly.**

Plastic/composites: Due to the diverse nature of plastic/composite 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,

SPECIFICATIONS (cont.)

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 SherwinWilliams Product Finishes Sales Representative for system recommendations.

Wood (Interior): Must be clean, dry, and finish sanded. Use of Sherwood interior millwork primer is suggested for priming. 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 (Exterior) – Must be clean, dry, and finish sanded. Use of exterior alkyd primer or Sherwood 90 day exterior primer is recommended for priming. Due to the nature of wood and use of various primers these products should be thoroughly tested for exterior performance.

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.

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APPLICATION

Typical Setups

Plural Component Equipment for mixing is preferred

May be applied by:

Conventional Spray

Airless Spray

Air Assisted Airless

HVLP

Conventional Spray:

Air Pressure.....40 – 60 psi

Fluid Pressure10 – 15 psi

Cap/Tip.....797/FF

Airless Spray:

Pressure.....>1500 psi

TipDependent on line speed

Air Assisted Airless:

Air Assist Pressure20 psi

Fluid Pressure150-250 psi

Cap/Tip.....Dependent on line speed

HVLP:

GunBinks Mach 1

Air Pressure at the cap.....40 - 65 psi

Fluid Pressure6-10 psi

Cap/Tip.....95P/97

Plural Component mixing requires catalyzation of 12 parts "A" to 1 part "B"

Cleanup:

Clean tools and equipment immediately after use with a mixture of 25% Butyl Cellosolve/75% water. Clean V66VL0006 with Butyl Acetate. Do not use solvents such as MEK or acetone to clean up V66VL0006 as they may contain water and may cause plug up of lines or equipment.

Flush equipment with solvent to prevent rusting.

Follow manufacturer's safety recommendations when using solvents.

PERFORMANCE TESTS

Product Limitations:

- Do not store material that has been catalyzed. Pressure can build in closed containers. Use all catalyzed material.
- Do not freeze. Store between 45 – 90F.
- Potlife maybe different for each color or clear
- Product is designed for interior use.
- Product has good performance when used exterior. Please consult your SW
- Representative to discuss use for exterior applications.
- If Solar Reflective colors are used for a heat sensitive substrate then only the Mono White and Clear can be used in the formula.

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. Catalyst CONTAINS ISOCYANATES. People who have chronic (long-term) lung or breathing problems or have had a reaction to isocyanates must not be in the area where this product is being applied. Where overspray is present, a positive pressure air-supplied respirator should be

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CAUTIONS cont)

worn. If unavailable, a properly fitted organic vapor/particulate respirator may be effective. Consult catalyst MSDS and product label for complete handling instructions.

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 Product Lab/Columbus
S Richter
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