



Chemical Coatings

Polane Solar Reflective Polyurethane Enamel

White	F63WC134	Dark Brown	F63NL4
Bronze	F63BL5	R/S Brown	F63NL5
Jet Black.....	F63BL6	Red.....	F63RL8
Y/S Green	F63GL6	G/S Yellow	F63YL5
B/S Green	F63GL7	R/S Yellow.....	F63YL6
Blue	F63LL4		
Catalyst	V66V55		

DESCRIPTION

POLANE SOLAR REFLECTIVE 2K Urethane Enamel is a 2-package polyurethane heat reflective coating for exterior use on heat sensitive substrates.

Advantages:

- Meets 3.5 lbs./gal VOC restrictions.
- Protects heat sensitive substrates.
- Excellent color and gloss retention.
- Passes AAMA 613
- Mar, abrasion, and chemical resistance
- Hap's free
- Lead and chromate free.

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

CHARACTERISTICS

Gloss: 30-40 units

Volume Solids: 54.8 ± 1%
May vary by color
Catalyzed & reduced

Weight Solids: 69.4 ± 1%

Viscosity:
15 -20 seconds #3 Zahn Cup

Recommended film thickness:
Mils Wet 3.5 - 4.0
Mils Dry 1.8 -2.2

CHARACTERISTICS (cont.)

Air Drying (2.0 mils DFT, 77°F, 50% RH):

To Touch	30 minutes
Tack Free	1 hour
To Handle	2 hours
To Recoat	90 minutes

Do not exceed the heat distortion temperature of the substrate.

Baking Schedule:

Flash off time	20 minutes
	40 minutes at 140°F

Flash Point: 80°F Pensky-Martin CC

Mixing Ratio:

3 parts	Part A
1 part	V66V55
.5 part	R6K18

Pot Life: 30 min.

Package Life: 1 year, unopened

Air Quality Data:

Non-photochemically reactive

Volatile Organic Compounds (VOC)
As packaged, maximum 3.5 lb/gal, 420g/L
Hazardous Air Pollutants (HAPS)
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, any contamination, and surface passivation treatments to ensure optimum adhesion and coating performance properties. Consult Metal Preparation Brochure CC-T1 for additional details.

Aluminum: If untreated, prime with Industrial Wash Primer, P60G2, or Kem Aqua® Wash Primer, E61G520.

Aluminum: A proprietary chrome phosphate treatment is required.

Aluminum: A minimum of a 5-stage chrome phosphate metal treatment, or equivalent, is required for good adhesion and optimum coating performance properties. Primer, E61G520.

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 Chemical Coatings Sales Representative for system recommendations.

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
Electrostatic Spray
HVLP

Conventional Spray:

Air Pressure.....20-40 psi
Fluid Pressure5-20 psi
Cap/Tip.....As Required
Reducer.....Ready to spray as catalyzed

Airless Spray:

Pressure 1500 psi
Tip as required
Reducer.....Ready to spray as catalyzed

Air Assisted Airless:

Air Assist Pressure 10-20 psi
Fluid Pressure100-250 psi
Cap/Tip..... as required
Reducer.....Ready to spray as catalyzed

Electrostatic Spray:

Reducer for polarity Line Specific
Reducer..... Contact Representative

HVLP:

GunBinks Mach 1
Air Pressure at the cap..... 10-40 psi
Fluid Pressure5-10psi
Cap/Tip.....As Required

Reducer.....Ready to spray as catalyzed

Cleanup:

Clean tools/equipment immediately after use with R6K10.
Flush equipment with solvent to prevent rusting.

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Product Limitations:

IR ovens of any type are not recommended. Use convection and forced air ovens only.

These products reflect IR energy and Cannot be blended with other polyurethane systems or phenox colorants. Colorants will affect infrared reflective character of coating.

Performance Tests AAMA 614-05

Substrate: Rigid PVC
Impact Resistance, Direct Pass
Water Immersion Pass
Boiling Water Immersion Pass
Humidity Resistance-3000 hrs Pass
Cold Crack Resistance, 15 Cycles Pass
Heat Age Test Pass
Weathering Resistance, 1 year South FL @ 45 Degrees AAMA613-05 Pass

Chemical Resistance Testing AAMA 614-05

10% Muriatic Acid Resistance Pass
Mortar Resistance Pass
Nitric Acid Vapor Resistance..... Pass
Detergent Resistance..... Pass
Window Cleaner Resistance Pass

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 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.

WCBP/Columbus
WMM
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