Product Finishes

Polane Solar Reflective Polyurethane Enamel

White	F63WC134	Blue	F63LL4
Bronze	F63BL5	Dark Brown	F63NL4
Black	F63BL6	R/S Brown	F63NL5
Jet Black	F63BL32	Red	F63RL8
45 TSR Black	F63BL40	G/S Yellow	F63YL5
Y/S Green	F63GL6	R/S Yellow	F63YL6
B/S Green	F63GL7	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:
- Designed to meet AAMA 614, AAMA 624, and AAMA 2604 performance specifications.
- Meets 3.5 lbs./gal VOC restrictions catalyzed and reduced.
- Protects heat sensitive substrates from heat build up due to solar radiation.
- Excellent color and gloss retention.
- Mar, abrasion, and chemical resistance
- HAP's free
- Free of lead and chromate hazards

*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 ± 2 %(theoretical)
May vary by color
Catalyzed & reduced
Weight Solids: 69.4 ± 1 %
May vary by color
Catalyzed & reduced

Viscosity:
15 -20 seconds #3 Zahn Cup

Recommended film thickness:

Mils Wet	3.5 – 4.0
Mils Dry	1.8-2.2

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.

CHARACTERISTICS (cont.)

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
0.5 part	R6K18

Pot Life: 30 minutes

Package Life: 1 year, unopened

Air Quality Data:
Non-photochemically reactive
White
Volatile Organic Compounds (VOC)
as packaged, maximum
3.18 lb/gal, 381 g/L
Volatile Organic Emissions
as packaged, maximum
3.18 lb/gal, 381 g/L
May vary by color
Reduced and catalyzed
3.5 lb/gal, 420 g/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, E61G522.
Aluminum: A proprietary chrome phosphate treatment is required.

SPECIFICATIONS (cont.)

Aluminum: A minimum of a 5-stage chrome phosphate metal treatment, or equivalent, is required for good adhesion and optimum coating performance properties.
And Primer, E61G522 is required.

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.
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 Pressure	5-20 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

(CONTINUED ON BACK)

APPLICATION.CONT.

Typical Setups

Air Assisted Airless:
Air Assist Pressure .....10-20 psi
Fluid Pressure .....100-250 psi
Cap/Tip..... as required
Reducer…Ready to spray as catalyzed

Electrostatic Spray:
Reducer for polarity ..... Line Specific
Reducer….. ..... Contact Representative

HVLP:
Gun .....Binks Mach 1
Air Pressure at the cap.....10-40 psi
Fluid Pressure 5-10psi
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.

ADDITIONAL INFORMATION

Product Limitations:

- **All colors for heat sensitive substrates (Vinyl, PVC, etc) must be submitted to the Building Products Lab for TSR and HBU testing and approval before the product is used in customer production environments.**
  Contact Building Products Lab or Building Products Marketing for further details.
- F63BL32 and F63BL40 use high performance pigments to help meet specific heat build-up and total solar reflectance requirements. These monos yield higher TSR values compared to F63BL5 and F63BL6.
- 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 phoenix colorants. Colorants will affect infrared reflective character of coating.

CAUTIONS

Thoroughly review product label for safety and cautions prior to using this product.
A 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.

Building Products/Columbus
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