**Polane® Solar Reflective Polyurethane Enamel** is a 2 component, heat reflective coating for exterior use on aluminum, composites, and heat sensitive substrates. Typical heat sensitive substrates include fiberglass and cPVC with heat distortion temperatures < 200° F.

**Advantages:**
- May be air dried or force dried
- Meets 3.5 lbs/gal VOC restrictions, when catalyzed & reduced
- May reduce heat buildup due to solar radiation
- Excellent color and gloss retention
- Passes AAMA 623, 624 & 2604 specifications
- Mar, abrasion, and chemical resistant
- HAPs free
- Free of lead and chromate hazards.

Polane Solar Reflective is not recommended for use on composite substrates with distortion temperatures < 200° F.

**DESCRIPTION**

**CHARACTERISTICS**

- **60° Gloss:** 30-40
- **Volume Solids:** 54.8 ± 2 % (Theoretical) Catalyzed & reduced
- **Weight Solids:** 69.4 ± 1 % Catalyzed & reduced
- **Viscosity:** 15-20 secs., #3 Zahn Cup at 77° F
- **Recommended Film Thickness:**
  - Mils Wet: 3.3-4.0
  - Mils Dry: 1.8-2.2
- **Drying:**
  - (2.0 mils DFT @ 77° F, 50% RH)
  - To Touch: 30 minutes
  - Tack Free: 1 hour
  - To Handle: 2 hours
  - To Recoat w/ Itself: 90 minutes
- **Cure:**
  - Air Dry
  - Force Dry 20 mins. flash, 40 mins. at 140° F
  - Do not exceed the heat distortion temperature of the substrate.
- **Flash Point:** 80° F (Pensky Martens Closed Cup)
- **Mixing Ratio** (by volume):
  - Polane SR (Part A): 3 Parts
  - V66V55 (Part B): 1 Part
  - R6K18 (Reducer): 0.5 Part
- **Potlife:** 30 minutes
- **Package Life:** 1 year, unopened

**SPECIFICATIONS**

- **Aluminum:** A minimum of a 5-stage chrome phosphate metal pretreatment, or equivalent, is required for good adhesion and optimum coating performance properties. Also, 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 Sales Representative for system recommendations.

**Testing:** The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.

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

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at [www.PaintDocs.Com](http://www.PaintDocs.Com).
APPLICATION

Typical Setups

May be applied by: Conventional Airless Air Assisted Airless Electrostatic HVLP

Conventional Spray:
- Air Pressure: 20-40 psi
- Fluid Pressure: 5-20 psi
- Tip: as required
- Reducer: ready to spray as catalyzed

Airless Spray:
- Fluid Pressure: 1,500 psi
- Tip: as required
- Reducer: ready to spray as catalyzed

Air Assisted Airless Spray:
- Air Assist Pressure: 10-20 psi
- Fluid Pressure: 100-250 psi
- Tip: as required
- Reducer: contact S-W representative

Electrostatic Spray:
- Reducer: For Polarity line specific
- Tip: as required
- Reducer: contact S-W representative

HVLP Spray:
- Gun: Binks Mach 1
- Air Pressure: 10-40 psi at cap
- Fluid Pressure: 5-10 psi
- Tip: as required
- Reducer: ready to spray as catalyzed

Equipment/application guidelines are only guidelines and individual application & process parameters will dictate exact requirements.

Cleanup: Clean tools/equipment immediately after use with R6K10 (MEK), or any other such solvent.

Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

1. **DO NOT VARY CATALYST RATIO.**
   - The catalyst ratio has been established for optimum hardness, flexibility, gloss, and chemical & solvent resistance.
   - 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.

2. **All colors for heat sensitive substrates (cPVC, etc) must be submitted to the Building Products Lab for TSR and HBU testing before the product is used in customer production environments.** Contact Building Products Lab or Building Products Marketing for further details.

3. 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.

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

5. 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

FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review the product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.

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 SDS and product label for complete handling instructions.

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or www.PaintDocs.com.

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Note:
All purchases of products from Sherwin-Williams are exclusively subject to Sherwin-Williams' Standard Terms And Conditions Of Sale. Please review these terms and conditions prior to the purchase of the products.

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Building Products/Moline, IL
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February 19, 2020