



# General Industrial Coatings

CC-D38

## Polane<sup>®</sup> Solar Reflective Polyurethane Enamel

Bronze .....	F63BL5	B/S Green .....	F63GL7	White .....	F63WC134
Black .....	F63BL6	Blue .....	F63LL4	G/S Yellow .....	F63YL5
Jet Black .....	F63BL32	Dark Brown .....	F63NL4	R/S Yellow .....	F63YL6
45 TSR Black .....	F63BL40	R/S Brown .....	F63NL5	Custom Blend Series .....	F63SR
Y/S Green .....	F63GL6	Red .....	F63RL8	Catalyst .....	V66V55

### DESCRIPTION

**Polane<sup>®</sup> Solar Reflective Polyurethane Enamel** is a two-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
- Formulated to meet 3.5 lbs/gal VOC, less exempts, 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
- Formulated to be non-HAP

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

\* 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).

### CHARACTERISTICS

(may vary by color)

**60° Gloss:** 30-40

**Volume Solids:** 54.8 ± 2 %  
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 or  
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

**Air Quality Data** (may vary by color):  
Non-photochemically Reactive  
Volatile Organic Compounds (VOC)  
As packaged, maximum 3.18 lb/gal, 381 g/L  
Reduced and catalyzed 3.5 lb/gal, 420 g/L  
Hazardous Air Pollutants (HAPS)  
< 0.8 lbs per lb of solids

### 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.

## APPLICATION

### Typical Setups

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

#### **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  
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 or other such solvent.

Follow manufacturer's safety recommendations when using any solvent.

## ADDITIONAL INFORMATION

1. **This product must be properly catalyzed before using. DO NOT VARY CATALYST RATIO.** The catalyst ratio has been established for optimum hardness, flexibility, gloss, and chemical & solvent resistance.
  2. 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.
  3. **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.
  4. 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.
  5. IR ovens of any type are not recommended. Use convection and forced air ovens only.
  6. These products reflect IR energy and cannot be blended with other polyurethane systems.
- COLORANTS**
7. Blending of these monochromatic bases is used to create custom colors.
  8. Phoenix colorants are not used to tint this product line. Phoenix colorants will affect infrared reflective character of coating.
  9. Opticolor tints only may be added, up to a maximum of 2 oz/gallon.

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## 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.**

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](http://www.PaintDocs.com).

Please direct any questions or comments to your local Sherwin-Williams facility.

#### **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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