



**SHERWIN  
WILLIAMS.**

# Chemical Coatings

CC-D17

## POLANE® Plus Sealer

Gray ..... E65A71  
Catalyst ..... V66V44

| <u>DESCRIPTION</u>   | <u>CHARACTERISTICS</u>   | <u>SPECIFICATIONS</u>   |
|--|--|---|
| <p><b>POLANE® Plus Sealer</b> is a 3.5 lb/gal VOC complying two-package polyurethane coating suitable for use as a primer or as a primer sealer on metal, plastic and wood.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>Complies with 3.5 lb/gal VOC EPA solvent emission regulations</li> <li>Primer for steel surfaces over fillers and putties such as Polane 2.8 Plus SprayFil D61H75 for the machine tool market</li> <li>Excellent impact and chemical resistance</li> <li>Excellent adhesion to cast iron and steel</li> <li>Excellent resistance to machine tool cutting oils</li> <li>Promotes good salt spray, humidity and chemical resistance on metal surfaces when topcoated with Polane enamels</li> <li>Free of lead and chromate hazards</li> <li>Easy sanding</li> <li>Excellent holdout for full gloss top-coats</li> <li>Air dry or force dry. Low energy cure</li> </ul> | <p><b>Gloss:</b> 20-30 units</p> <p><b>Volume Solids:</b> 52 ± 2%<br/>catalyzed and reduced</p> <p><b>Viscosity:</b><br/>10-13 seconds #3 Zahn Cup<br/>catalyzed and reduced</p> <p><b>Recommended film thickness:</b></p> <p>Mils Wet 3.0 - 4.0<br/>Mils Dry 1.5 - 2.1</p> <p><b>Spreading Rate</b> (no application loss)<br/>385-577 sq ft/gal @ 1.5-2.1 mils DFT</p> <p><b>Drying</b> (77°F, 45% RH):</p> <p>To Touch: 20-30 minutes<br/>To Handle: 60-90 minutes<br/>To Sand: 4-5 hours<br/>To Recoat: 60-90 minutes<br/>Force Dry: 30 minutes at 140°F<br/>to sand or recoat</p> <p>Curing temperature must not exceed the heat distortion temperature of the substrate.</p> <p><b>Mixing Ratio:</b></p> <p>4 part E65A71<br/>1 part Catalyst V66V44<br/>1 part Reducer R7K84</p> <p><b>Pot Life:</b> 4 hours</p> <p><b>Flash Point:</b> 35°F Pensky-Martens<br/>Closed Cup</p> <p><b>Package Life:</b> 2 years, unopened</p> <p><b>Air Quality Data:</b><br/>Non-photochemically reactive<br/>Volatile Organic Compounds (VOC)<br/>as packaged, maximum<br/>2.71 lb/gal, 325 g/L<br/>catalyzed and reduced as above:<br/>3.5 lb/gal, 420 g/L<br/>Free of lead and chromate hazards.</p> <p>An Environmental Quality Data Sheet is available from your local Sherwin-Williams facility.</p> | <p><b>General:</b> 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.</p> <p><b>Aluminum, untreated:</b> Prime with Industrial Wash Primer P60G2 or Kem Aqua Wash Primer E61G520.</p> <p><b>Galvanized Steel, untreated:</b> Prime with Industrial Wash Primer P60G2 or Kem Aqua Wash Primer E61G520.</p> <p><b>Plastic:</b> Mold release must be removed from the substrate. 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. Please consult your Sherwin-Williams Chemical Coatings Sales Representative for system recommendations.</p> <p><b>Steel:</b> Remove rust, mill scale, and oxidation products. For best results, treat the surface with a proprietary surface chemical treatment of zinc or iron phosphate to improve corrosion protection.</p> <p><b>Cast Iron:</b> Fill with Polane 2.8 Plus SprayFil D61H75, and sand.</p> <p><b>Wood</b> (interior only): Must be clean, dry, and finish sanded. Substrate should be free of grease, oil, dirt, fingerprints, and any contamination to ensure optimum adhesion and coating performance properties.</p> <p><b>Testing:</b> 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.</p> |

## APPLICATION

### Typical Setups

**Note:** Maximum total reduction is 20% by volume to maintain 3.5 VOC.

#### **Conventional Spray:**

Gun .....DeVilbiss MBC  
Air Pressure ..... 50 psi  
Fluid Pressure ..... 10 psi  
Cap/Tip ..... 797/E or FF

#### **Airless Spray:**

Pressure ..... 1800-2200 psi  
Tip ..... .011 - .017"

Dipping, brushing, or flowcoat application is not recommended.

#### **For 2.8 lb/gal VOC Application**

##### **Mixing Ratio:**

|        |                 |
|--------|-----------------|
| 4 part | E65A71          |
| 1 part | Catalyst V66V44 |
| 4%     | Reducer R7K84   |

**Pot Life:** ½ - 1 hour

Plural equipment is ideal for 2.8 VOC application.

##### **Cleanup:**

Clean tools/equipment immediately after use with Polane Reducer R7K84 or ketone solvents.

Follow manufacturer's safety recommendations when using any solvent.

## SPECIFICATIONS

#### **Product Limitations:**

- Polane Catalyst V66V44 must be used to achieve proper performance. DO NOT VARY CATALYST RATIO. The catalyst ratio has been established for optimum hardness, flexibility, gloss and chemical and solvent resistance.
- Do not spray hot. Heat shortens pot life. Do not pump catalyzed material from drums into circulating systems, friction heat developed by pumps and circulation will shorten pot life.
- Protect all Polane products from moisture as water affects pot life and properties. Store indoors.
- Do not package Polane coated parts in air tight plastic bags unless completely cured. Since Polane products continue to cure for several weeks, the buildup of organic solvents and reaction by-products could cause improper cure and adhesion failure in use.
- Do not blend with any other polyurethane quality. No other catalysts, colorants, or reducers are recommended because foreign materials such as alcohols, glycols, and lacquer thinners affect film performance properties.
- If recoating after more than 7 days cure, sand lightly to ensure intercoat adhesion.
- Do not apply to wood substrates for exterior applications.

**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.

## CAUTIONS

#### **FOR INDUSTRIAL SHOP APPLICATION**

Thoroughly review product label and Material Safety Data Sheet (MSDS) 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.