



**SHERWIN
WILLIAMS.**

Chemical Coatings

CC-D27

POLANE® SP Polyurethane Enamel

White F63WC140
 Blending Clear F63VL4
 Black F63BC103
 Catalyst V66V55

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p>Polane® SP Polyurethane Enamel is a 3.5 VOC, HAPs-free, two-component exterior grade full gloss polyurethane enamel topcoat providing very good exterior durability and resistance properties. It is recommended for use on agriculture, construction OEM equipment, related add-on attachments, trailers, general metal and plastic finishing.</p> <p>Advantages:</p> <ul style="list-style-type: none"> • 3.5 VOC* as applied • HAPS free • Free of chromate hazards • Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303. • Fast dry through and hardness development • Excellent appearance with a "Class A" finish • Improved "out of dust time" and fast cure response • Excellent application characteristics including airless, HVLP and conventional spray applications. • Very good color and gloss retention • Compatible with a wide range of primers, including: E65A4, E65A71, E61AC133, E61AC722, E61A280, E61AC136 and E61AC134. • Excellent physical and chemical properties <p>*VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.</p>	<p>Gloss: 20°/60° 80 - 90+ units Volume Solids: 46-54 ± 1% catalyzed and reduced</p> <p>Viscosity: 30-40 seconds #3 Zahn Cup</p> <p>Recommended film thickness: Mils Wet 2.4 - 4.0 Mils Dry 1.2 - 2.0</p> <p>Spreading Rate (no application loss) 361-735 sq ft/gal @ 1.5-2.0 mils DFT</p> <p>Drying (77°F, 50% RH): To Touch: 45 minutes To Handle: 8-10 Hours Tack Free: 5 Hours To Recoat: No critical recoat To Pack: Overnight Force Dry: 25 minutes at 160°F</p> <p>If faster drying is required, add one ounce of GA1097. Do not exceed a total of 3 ounces accelerator. Do not use V66VB11.</p> <p>Flash Point: 80-102°F PMCC</p> <p>Mixing Ratio: V66V55 5 parts Part A 1 part Catalyst V66V55 0.7 parts Reducer R6K30</p> <p>Mixing Ratio: V66VC232 or V66VC236 4 parts Part A 1 part Catalyst V66VC232 or V66VC236</p> <p>Pot Life: 1-2 hours Package Life: 24 months, unopened</p> <p>Air Quality Data: Non-photochemically reactive Volatile Organic Compounds (VOC) Catalyzed and reduced as above, maximum 3.5 lb/gal, 420 g/L Hazardous Air Pollutants (HAPS) as packaged, maximum 0.0 lbs per lb of solids</p> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility.</p>	<p>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.</p> <p>Steel or Iron: 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>Aluminum: Prime with Industrial Wash Primer, P60G2, or Kem Aqua® Wash Primer, E61G520, or a proprietary chrome phosphate treatment. For good adhesion and optimum coating performance properties use a minimum of a 5-stage chrome phosphate metal treatment, or equivalent.</p> <p>Galvanized Steel: Prime with Industrial Wash Primer, P60G2, or Kem Aqua® Wash Primer, E61G520.</p> <p>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.</p> <p>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.</p>

APPLICATION

Typical Setups

May be applied by:

Conventional Spray
Airless Spray (some limitations)
Air Assisted Airless
Electrostatic Spray
HVLP

Conventional Spray:

Air Pressure 45-60 psi
Fluid Pressure 10 – 20 psi
Tip055
Reducer MAK or R7K75
Reduction Rate .. as needed up to 20%

Airless Spray:

Pressure 2100 – 2500 psi
Tip011 - .013"
Reducer MAK or R7K75
Reduction Rate .. as needed up to 20%

Air Assisted Airless:

Air Assist Pressure 15-30 psi
Fluid Pressure 1500 – 2500 psi
Cap/Tip011" - .013"
Reducer MAK or R7K75
Reduction Rate .. as needed up to 20%

Electrostatic Spray:

Reducer for flow MAK or R7K75
Reduction Rate 20%

HVLP:

Air Pressure at the cap <10 psi
Fluid Pressure 15 – 25 psi
Tip052
Reducer MAK or R7K75
Reduction Rate as needed up to 20%

Cleanup:

Clean tools and equipment immediately after using with Polane reducers, MEK, MIBK or MAK.

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

- Do not use V66VB11 to accelerate cure. Using this accelerator will result in extremely short pot life.
- Do not exceed 3 ounces of GA1097 per sprayable gallon of paint.
- Do not exceed the maximum tint load of 24 ounces per gallon when using Phoenix Colorants in F63VL4 clear.
- Do not exceed the maximum tint load of 12 ounces per gallon when using Phoenix Colorants in F63WC140 white.
- If superior color and gloss retention properties are required, consider Polane G Plus.
- Catalysts V66VC232 and V66VC236 are pre-reduced.

Performance Tests

Substrate: Bonderite 1000 P60 steel panels primed with E61AC133 primer.

Salt Spray Test

ASTM B117 500 hours
Humidity

ASTM D2247, 100°F, 100% RH 500 hours
Conical Mandrel

ASTM D633 passes 1/8" mandrel
Impact Resistance, Direct

ASTM D2794 80 in lb
Impact Resistance, Reverse

ASTM D2794 40 in lb
Pencil Hardness

ASTM D3363 2H
Chip resistance Excellent, 7A

Water Immersion 96 hours, no effect

Water spot test 24 hours, no effect

Chemical Resistance Test

24 hour covered spot test

Engine Oil no visual effect

Diesel Fuel no visual effect

Unleaded Gasoline no visual effect

Trisodium Phosphate no visual effect

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.