



**SHERWIN
WILLIAMS.**

Chemical Coatings

CC-A21

POLANE® W₂ Primer

Gray E61AC514

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p>POLANE® W₂ Primer is a one component, 2.3 lb/gal VOC compliant*, acrylic latex, water reducible primer . It can be applied to structural foam plastics and various metal surfaces.</p> <p>Advantages:</p> <ul style="list-style-type: none"> • Water reducible • Low odor - improves working conditions • Reduced fire hazards - possible lower insurance costs • VOC less than 2.3 lb./gal* • Volatile Organic Emissions less than 1.3 lb/gal • Use water for reduction and cleanup of spray equipment • Excellent adhesion to a wide range of structural foam plastics • Air dry or force dry • Single component, no catalyzation • No critical recoat time • Provides corrosion resistance to the system • Topcoat with solvent based Polane coatings • Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303. • Enhances performance when used as a system with topcoats like Polane 700T and Kem Aqua® 600T <p>*VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.</p>	<p>Gloss: 0-8 units</p> <p>Volume Solids: 39.8 ± 2%</p> <p>Viscosity: 75-85 Krebs Units</p> <p>Recommended film thickness: Mils Wet 3.25 - 4.0 Mils Dry 1.25 - 1.5</p> <p>Spreading Rate (no application loss) 404-536 sq ft/gal@ 1.25-1.5 mils DFT</p> <p>Drying (1.25 mils dft, 77°F, 50% RH): To Touch: 15 minutes To Handle: 30 minutes To Recoat: 30-45 minutes Force Dry: 15-30 minutes at 140-180°F</p> <p>Good air movement and humidity control are necessary for proper drying of water reducible coatings.</p> <p>Flash Point: None, Seta Flash Closed Cup</p> <p>Package Life: 2 years, unopened</p> <p>pH: 8.4 - 8.8</p> <p>Air Quality Data: Non-photochemically reactive Volatile Organic Compounds (VOC) as packaged, maximum 2.3 lb/gal, 276 g/L</p> <p>Volatile Organic Emissions as packaged, maximum 1.3 lb/gal, 156 g/L</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>Aluminum: If untreated, prime with Kem Aqua Wash Primer, E61G520.</p> <p>Galvanized Steel: If untreated, prime with Kem Aqua Wash Primer, E61G520.</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>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. Please consult your Sherwin-Williams Chemical Coatings Sales Representative for system recommendations.</p> <p>Kem Aqua 65P Water Reducible Sprayfil, D61H565, should be used where filling of structural foam plastic is required.</p> <p>Testing: Due to the wide variety of substrates, surface preparation methods, and application methods and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.</p>

APPLICATION

Typical Setup

Do not over reduce. Water reducible coatings spray easier at high viscosity than solvent reducible products.

Use low to moderate atomizing pressures to minimize bubbling and air entrapment.

Conventional Spray:

Air Pressure 50-60 psi
Fluid Pressure 10-15 psi
Reducer water
Reduction Rate... as needed up to 5%

Airless Spray:

Pressure 1600-2400 psi
Tip011 - .015"
Reduction Rate none needed

Air Assisted Airless:

Air Assist 30-40 psi
Fluid Pressure 300-600 psi
Fluid Tip011" - .013"
Reducer water
Reduction Rate... as needed up to 5%

HVLP:

Air Pressure 8-9 psi
Fluid Pressure 1-5 psi
Reducer water
Reduction Rate . as needed up to 10%

Cleanup:

Use water when wet. If dried, clean with a 9:1 blend of water and ammonia. Clean spray gun cap with MEK. After cleaning, flush equipment with solvent to prevent rusting.

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Product Limitations:

- Protect from freezing, store inside between 40-95°F
- Spray a wet film for good film integrity
- High humidity will slow drying.
- Excessive film thickness may cause mudcracking.
- To prevent foaming and air entrapment, do not shake or agitate violently
- Keep container closed to prevent skinning
- Do not use viscosity cups to measure viscosity. Product should be applied at as heavy a viscosity as practical
- Not intended for use on machine tool castings.
- Ensure that primer is completely dry before topcoating with any solvent based topcoat.
- To ensure performance, minimum dry film thickness is 1.0 mils.
- Contains soluble Barium compounds.
- Not recommended for alkyd topcoats like Kem Aqua 280 Water Reducible Enamel.

Performance Tests

Substrate: Bonderite 1000 Steel
Primer:@ 1.5 mils dft
Salt Spray Test, ASTM B117 96 hours
Freeze/Thaw Cycles, ASTM D2243 . 1 cycle
Adhesion to structural foam plastic, ASTM D3359
Lexan® 5 Rating
Noryl® 5 Rating
ABS 5 Rating
Styron® 5 Rating
(Lexan and Noryl are registered trademarks of The General Electric Company. Styron is a registered trademark of Dow Chemical Company)

CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION

Thoroughly review product label 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.

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.