Product Finishes

SHERWIN WILLIAMS

CC-A21A

POLANE® W_2 Primer

Gray E61A516

DESCRIPTION

POLANE® W_2 Primer is a one component 2.3 lb/gal VOC* acrylic latex water reducible primer. It can be applied to structural foam plastics and various metal surfaces.

Advantages:

- Reduce and cleanup with water**
- VOC as packaged < 2.3 lbs/gal, 276 g/L less water and exempt solvents
- 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
- Can be used under solvent based Polane® coatings
- Enhances performance when used as a system with topcoats like Polane® 700T and Kem Aqua® 600T topcoats

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

**To ensure optimal coating performance and stability, it is recommended to use deionized water for reduction.

CHARACTERISTICS

Gloss: 0-8 units (60°)
Volume Solids: 40 ± 2%
Viscosity:
75-85 Krebs Units
Recommended film thickness:

Mils Wet	3.25 - 4.0
Mils Dry	1.25 - 1.5

Spreading Rate (no application loss)
410-540 sq ft/gal@ 1.25 -1.5 mils DFT
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

Good air movement and humidity control are necessary for proper drying of water reducible coatings.
Flash Point: None, Seta Flash Closed Cup
Package Life: 2 years, unopened
pH: 8.4 - 8.8

Air Quality Data:

- Non-photochemically reactive
- Volatile Organic Compounds (VOC) theoretical as packaged, less water and exempt solvents
  < 2.3 lbs/gal, 276 g/L

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.paintdocs.com.

SPECIFICATIONS

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.

Aluminum: If untreated, prime with KEM AQUA® Wash Primer, E61G522.

Galvanized Steel: If untreated, prime with KEM AQUA® Wash Primer, E61G522.

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.

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 Sales Representative for system recommendations. KEM AQUA® 65P Water Reducible Sprayfil, D61H565, should be used where filling of structural foam plastic is required.

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.

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APPLICATION

Typical Setups

Reduction: To ensure optimal coating performance and stability, it is recommended to use deionized water for reduction. Do not over reduce. Water reducible coatings spray easier at high viscosity than solvent reducible coatings.

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

Conventional Spray:
Air Pressure..... 50-60 psi
Fluid Pressure ..... 10-15 psi
Reduction Rate..... as needed up to 5%

Airless Spray:
Pressure .....1600-2400 psi
Tip .....011 - .015"
Reduction Rate..... none needed

Air Assisted Airless:
Air Assist ..... 30-40 psi
Fluid Pressure ..... 300-600 psi
Fluid Tip.....011" - .013"
Reduction Rate..... as needed up to 5%

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

Cleanup:
Use water while coating is 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.

ADDITIONAL INFORMATION

- Protect from freezing, store inside between 40-95°F.
- Spray a full wet coat at 3.25-4.0 wet mils 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® 8710 Water Reducible Enamel.

Performance Tests
Substrate: Bonderite® 1000 Steel P60
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
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CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review 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.

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