DESCRIPTION

POLANE® 8910 Polyurethane Enamel is a two component coating providing a full gloss range with excellent exterior durability and chemical resistance properties along with high volume solids and low VOC*.

Advantages:
• Excellent exterior color and gloss retention with V66V55 & V66V280 catalysts
• Very good combination of hardness and impact resistance
• Excellent exterior physical and chemical performance properties
• Excellent appearance over many types of metal and plastic substrates
• Excellent mar and abrasion resistance
• Air dry or force dry
• Available in a broad range of colors
• Formulated to meet 2.8 or 3.5 lbs/gal VOC regulations, depending on catalyst choice
• Ability to be applied as a textured coating
• Apply by conventional, airless, HVLP, electrostatic spray and air-assisted airless

Flash Point: 81-83°F Pensky-Martens Closed Cup

Package Life (unopened):
Polane 8910 2 years
V66V55 12 months
V66V280 24 months

Air Quality Data:
• Non-photochemically reactive
• Volatile Organic Compounds (VOC): 3.5 lbs/gal, 420 g/L 2.8 lbs/gal, 336 g/L theoretical catalyzed and reduced

*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

CHARACTERISTICS

Gloss: High: 90+ (60°) Low: 10 (60°)

Volume Solids: 50 - 55 ± 2% catalyzed & reduced, may vary by color

Viscosity: 18-27 secs., #2 Zahn Cup catalyzed & reduced

Recommended film thickness:
Mils Wet 3.0-4.0
Mils Dry 1.5-2.0

Spreading Rate (at 3.5 VOC):
535 - 590 sq ft/gal @ 1.5 mils DFT no application loss, may vary by color

Mix Ratio

<table>
<thead>
<tr>
<th>3.5 VOC</th>
<th>2.8 VOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polane 8910</td>
<td>3 parts</td>
</tr>
<tr>
<td>Polane 8910 + *V66V811 Accelerator</td>
<td>-</td>
</tr>
<tr>
<td>V66V55 Catalyst</td>
<td>1 part</td>
</tr>
<tr>
<td>R6K30 Reducer</td>
<td>1 part</td>
</tr>
<tr>
<td>Polane 8910</td>
<td>4 parts</td>
</tr>
<tr>
<td>Polane 8910 + *V66V811 Accelerator</td>
<td>-</td>
</tr>
<tr>
<td>V66V280 Catalyst</td>
<td>1 part</td>
</tr>
<tr>
<td>R6K38 Reducer</td>
<td>1 part</td>
</tr>
</tbody>
</table>

Drying Performance (2.8 & 3.5 VOC)

<table>
<thead>
<tr>
<th>*Accelerated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot Life</td>
</tr>
<tr>
<td>Force Dry (mins)</td>
</tr>
<tr>
<td>@ 140 - 180° F</td>
</tr>
</tbody>
</table>

Air Drying Performance

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>To Touch (mins.)</td>
</tr>
<tr>
<td>30 - 60</td>
</tr>
<tr>
<td>To Tack Free (hrs.)</td>
</tr>
<tr>
<td>1 - 2</td>
</tr>
<tr>
<td>To Handle (hrs.)</td>
</tr>
<tr>
<td>To Recoat (hrs.)</td>
</tr>
</tbody>
</table>

*Add up to 1/2 ounce of Polane® Accelerator V66V811 per gallon. Accelerator use may impact gloss.

Curing temperature must not exceed the heat distortion temperature of the plastic substrate.

APPLICATION

Typical Setups

Reduction: To maintain 2.8 or 3.5 lbs/gal VOC, follow the recommended reduction guidelines. For improved flow use a blend of 10% R7K95 and 90% R6K30. MIBK may also be used as a reducer.

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

Conventional Spray:
Air Pressure......................... 40 – 50 psi
Fluid Pressure...................... 5 – 10 psi
Cap/Tip.............................. 0.047 in

Airless Spray:
Pressure......................... 2000 – 2800 psi
Tip.............................. 0.009 – 0.011 in

Air Assisted Airless:
Air Assist Pressure................. 10 – 30 psi
Fluid Pressure...................... 600 – 900 psi
Cap/Tip.............................. 0.009 – 0.011 in

Electrostatic Spray:
Conductivity is 0.2 - 0.8 megohms resistance, which is suitable for most hand held electrostatic spray setups.

HVLP:
Air Pressure at the cap .......... 3 - 10psi
Fluid Pressure...................... 5 – 10 psi
Cap/Tip.............................. 0.040 in

Cleanup:
Clean tools/equipment immediately after use with Reducer R7K95 or MAK. Polane reducers, MEK and MIBK may also be used but they are not HAPS compliant.

Follow manufacturer’s safety recommendations when using any solvent.
**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, Untreated:** Prime with RoHS Compliant Wash Primer, P60G10, or Industrial Wash Primer, P60G2, or Kem Aqua® Wash Primer, E61G522, followed by Polane Plus Sealer, E65A71 or 2.8 VOC Catalyzed Epoxy Primer, E61A280.

**Galvanized Steel, Untreated:** Prime with RoHS Compliant Wash Primer, P60G10, or Industrial Wash Primer, P60G2, or Kem Aqua® Wash Primer, E61G522, followed by Polane Plus Sealer, E65A71 or 2.8 VOC Catalyzed Epoxy Primer, E61A280.

**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.

**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. For untreated metal: Prime with RoHS Compliant Wash Primer, P60G10, or Industrial Wash Primer, P60G2, or Kem Aqua Wash Primer, E61G522, followed by Polane Plus Sealer, E65A71 or 2.8 VOC Catalyzed Epoxy Primer, E61A280. For best corrosion resistance, prime treated steel with Polane Plus Sealer, E65A71 or 2.8 VOC Catalyzed Epoxy Primer, E61A280.

**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.

**ADDITIONAL INFORMATION**

- Polane® 8910 coatings must be catalyzed with V66V55 or V66V280 for exterior application. Do not vary catalyst ratio. The catalyst ratio has been established for optimum hardness, flexibility, gloss, chemical and solvent resistance.

- Do not spray hot. Heat shortens potlife.
- Do not pump catalyzed materials from drums into circulating system. Friction heat developed by pumps and circulation will shorten potlife.
- Protect Polane enamels, catalyst and reducer from moisture as water affects potlife and properties.
- Store indoors.
- Do not package Polane coated products in airtight plastic bags unless completely cured. Since Polane enamels 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 exceed the recommended amount of V66VB11 per sprayable gallon of paint. If using more than the recommended amount of accelerator, pot life, recoat time, adhesion, VOC and other properties may all be negatively affected. Coating performance must be thoroughly checked prior to implementing this strategy.
- Do not exceed 2.0 mil dry film with airless or air assisted airless equipment due to sagging tendencies.
- For air-assisted airless applications, solvent blend adjustments may be necessary.

**Performance Tests**

- **Substrate:** 24 gauge Bonderite® 1000 P99X cold rolled steel panels
- **Coating:** F63W200:V66V55, catalyzed 3:1 Reduced Dry Film Thickness: 1.5 mls
- **Force Dry:** 30 mins. at 180°F
- **Cure:** 14 days, Air Dry.
- **Salt Spray Test** 300 hours
- **ASTM B117** 1/8" rust creepage rate at scribe
- **Humidity** 1000 hours
- **ASTM D2247** 100°F, 100% RH
- **Impact Resistance, Direct** 80 in lb
- **ASTM D2794**
- **Impact Resistance, Reverse** 40 in lb
- **ASTM D2794**
- **Pencil Hardness** H – 2H
- **ASTM D3363**
- **Water Immersion** 24 hours
- **ASTM D670**
- **Adhesion, Crosshatch** Excellent
- **ASTM D3359**
- **MEK, 100 double rubs** No Burnish
- **ASTM D5402**
- **Heat Resistance, Dry** 250°F
- **ASTM D22485**
- **Taber Abrasion**, < 160 mg
- **ASTM D4060** CS 17 wheel, 1000 g, 1000 cycles

**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.

**Note:** All purchases of products from Sherwin-Williams are exclusively subject to Sherwin-Williams’ terms and conditions of sale which can be found at www.Sherwin.com. Please review these terms and conditions prior to the purchase of the products.

Sherwin-Williams warrants the product to be free of manufacturing defect in accordance with Sherwin-Williams’ quality control procedures. Except for the preceding sentence, due to factors that are outside of Sherwin-Williams’ control, including substrate selection, and customer handling, preparation, and application, Sherwin-Williams cannot make any other warranties related to the product or the performance of the product.

SHERWIN-WILLIAMS DISCLAIMS ALL WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Liability for products proven to be defectively manufactured will be limited solely to replacement of the defective product or the refund of the purchase price paid for the defective product, as determined by Sherwin-Williams. Under no circumstances shall Sherwin-Williams be liable for indirect, special, incidental or consequential damages, lost profits or punitive damages arising from any cause whatsoever.

All trademarks are the property of their respective owners.

Polane® 8910 Polyurethane Enamel