

Product Finishes

CC-D6



**SHERWIN
WILLIAMS.**

POLANE[®] HS Enamel

Black.....F63B50
Flattening Base.....F63T2
Gloss Blending ClearF63V59

Gloss Blending White.....F63W56
Custom Blend.....F63HX Series
Catalyst (interior).....V66V27
Catalyst (exterior).....V66V29

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>SPECIFICATIONS</u>
<p>POLANE[®] HS Enamel is a two component polyurethane coating providing high volume solids at the gun.</p> <p>Advantages:</p> <ul style="list-style-type: none"> • Very good interior and exterior physical and chemical performance • Ideal coating for Machine Tool Industry with resistance to most lubricants and cutting oils • High spreading rate due to higher solids • Air dry or force dry • Available in a broad range of colors and gloss levels • Excellent hardness and impact resistance • Excellent adhesion, mar resistance, and abrasion resistance • Apply by conventional, airless, HVLP or electrostatic spray <p>Air Quality Data: (Theoretical) Non-photochemically reactive Volatile Organic Compounds (VOC)* as packaged, maximum 2.96 lb/gal, 355 g/L</p> <p>Catalyzed and reduced: With V66V27: 4.05 lb/gal, 485 g/L With V66V29: 3.61 lb/gal, 433 g/L</p> <p>*VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.</p> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.paintdocs.com</p>	<p>High Gloss: 90 + (60°) Volume Solids: 44-51% catalyzed and reduced, varies by color Viscosity: 18-21 seconds #2 Zahn Cup catalyzed and reduced Recommended film thickness: Mils Wet 2.5 - 3.5 Mils Dry 1.25 - 1.5 Spreading Rate (no application loss) 470-654 sq ft/gal @ 1.25-1.5 mil DFT</p> <p>Drying (77°F, 45% RH): Catalyzed with V66V27 To Touch: 20 minutes Handle: 8 hours Tack Free: 30 minutes To Recoat: no critical recoat Force Dry: 30 minutes at 180°F Catalyzed with V66V29 To Touch: 60-90 minutes To Handle: 10-12 hours Tack Free: 8 hours To Recoat: 5-6 hours Do not exceed the heat distortion temperature of the substrate.</p> <p>Accelerated Drying (effective with catalyst V66V29 only): Add up to 4 oz. of V66VB11 per gallon of uncatalyzed Polane Enamel. Mix well. Then catalyze and reduce. Working pot life is reduced to 1-1½ hours. To Touch: 30-60 minutes To Handle: 2-3 hours Tack Free: 1-2 hours Recoat: 1-1½ hours Flash Point: 25-40°F Pensky-Martens Closed Cup</p> <p>Mixing Ratio: 2 parts Polane[®] HS 1 part Catalyst V66V27 or V66V29 .75 parts Reducer R7K95 Lower gloss blends require a catalyst ratio of 3:1</p> <p>Pot Life: 2-3 hours</p> <p>Package Life: F63V59 and V66V29 24 months, unopened V66V27 12 months, unopened All others 3 years, unopened</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 (untreated): Prime with RoHS Compliant Wash Primer, P60G10, Industrial Wash Primer, P60G2, or Kem Aqua[®] Wash Primer, E61G522.</p> <p>Galvanized Steel (untreated): Prime with RoHS Compliant Wash Primer, P60G10, Industrial Wash Primer, P60G2, or Kem Aqua[®] Wash Primer, E61G522.</p> <p>Steel: Remove rust, mill scale, and oxidation products. For best results in corrosion protection, treat the surface with a proprietary surface chemical treatment of zinc or iron phosphate. On untreated steel use RoHS Compliant Wash Primer, P60G10, or Industrial Wash Primer, P60G2, followed with Polane[®] Primer/Sealer, E65A4 or 2.8 VOC Catalyzed Epoxy Primer, E61A280. On treated steel, prime with Polane[®] Primer/Sealer, E65A4 or 2.8 VOC Catalyzed Epoxy Primer, E61A280.</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 Sales Representative for system recommendations.</p> <p>Wood (interior only): Must be clean, dry, and finish sanded. Seal with a full coat of Polane[®] SprayFil.</p>

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.

APPLICATION

Typical Setups

Conventional Spray:

Air Pressure 40-50 psi
 Fluid Pressure 5-10 psi
 Cap/Tip.....
 .047

Airless Spray:

Pressure2000-2800 psi
 Tip..... .009 -
 .011"

HVLP:

Air Pressure..... 3-5 psi
 Fluid Pressure 5-10 psi
 Cap/Tip.....
 .040

Air Assisted Airless:

Air Pressure..... 10-30 psi
 Fluid Pressure 600-900 psi
 Cap/Tip..... .009 -
 .011"

Dipping, brushing or flowcoat application is not recommended.

Cleanup:

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

Follow manufacturer's safety recommendations when using any solvent.

Gloss Adjustments:

Gloss can be lowered by intermixing with Polane® Flattening Base, F63T2.

Mixing Ratio	Parts			
Polane® Enamel	2	2	1½	1
Flattening Base	0	1	1½	2
Catalyst	1	1	1	1
Gloss at 60° approximately	Full	60-75	40-50	20-30

SPECIFICATIONS

Product Limitations:

- Polane® Catalyst, V66V27, interior, or V66V29, exterior, must be used to achieve proper performance. **Do not vary catalyst ratios.** They have been established to provide optimum hardness, flexibility, gloss, and chemical resistance.
- Use catalyst V66V27 for interior use. V66V27 will lead to early chalking and gloss loss on exterior exposures. Using V66V29 for exterior use will provide very good durability, but will increase the dry time of the product.
- Heat shortens pot life. Do not spray hot. Do not pump catalyzed material into circulating systems. Friction heat developed by pumps and circulation will shorten pot life.
- Protect from moisture, water affects pot life and product properties. Store indoors.
- Do not package Polane® coated products in air tight plastic bags unless completely cured. Polane® continues 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 apply to wood for exterior use.
- Do not blend with any other polyurethane quality. No other catalyst, colorants, or reducers are recommended because foreign materials, such as alcohols and glycols, destroy performance properties. Do not use lacquer thinners or alcohol-containing solvents.
- Blend with Phoenix® Colorants only.

Performance Tests

Bonderite® 1000 (P60) 20 gauge panels, F63W56, Catalyzed 2:1 with V66V27, reduced 33% with R7K94
 Salt Spray Test
 1/8" rust at scribe250 hours
 Humidity 100% RH, 100°F250 hours
 Pencil Hardness 3H
 Water Immersion..... 24 hours

All trademarks are the property of their respective owners

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.