



Product Finishes

CC-D30

POLANE[®] Dead Flat Black

Black.....F63B7
Catalyst..... V66V27

<u>DESCRIPTION</u>	<u>CHARACTERISTICS</u>	<u>APPLICATION</u> Typical Setups
<p>POLANE[®] Dead Flat Black is a two component, urethane coating providing superior appearance and durability</p> <p>Advantages:</p> <ul style="list-style-type: none"> • The performance properties are ideal for metal surfaces as well as structural materials such as FRP, structural foams, ABS, SMC, Nylon and many other plastic and wood surfaces • Excellent chemical resistance • Air dry or force dry curing <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>Gloss: 1-6 units (60°)</p> <p>Volume Solids: 23 ± 2% catalyzed and reduced</p> <p>Viscosity: catalyzed and reduced 22-24 seconds #2 Zahn Cup</p> <p>Recommended film thickness: Mils Wet 4.2 - 5.3 Mils Dry 1.0 - 1.25</p> <p>Spreading Rate (no application loss) 447-559 sq ft/gal @ 1.0 mils DFT</p> <p>Air Drying (77°F, 50% RH): To Touch: 20-30 minutes Tack Free: 30-40 minutes Hard: 8 hours To Pack: overnight Force Dry: 30 minutes at 180°F Curing temperature must not exceed the heat distortion temperature of the plastic substrate.</p> <p>Mixing Ratio: 7 parts Polane[®] 1 part Catalyst V66V27 4 parts R7K84</p> <p>Pot Life: 8 hours</p> <p>Flash Point: 55°F Pensky-Martens Closed Cup</p> <p>Package Life: 2 years, unopened V66V27 12 months unopened</p> <p>Air Quality Data (Theoretical):</p> <ul style="list-style-type: none"> • Non-photochemically reactive • Volatile Organic Compounds (VOC) as packaged, maximum, less exempt solvents 5.04 lb/gal, 604 g/L • Catalyzed and reduced as above: 5.68 lb/gal, 680 g/L 	<p>Reduction: Reduce with R7K84. Maximum total reduction is 50% by volume</p> <p>May be applied by: Conventional Spray Airless</p> <p>Conventional Spray: Air Pressure..... 50-55 psi Fluid Pressure8-10 psi Tip055-.070</p> <p>Airless Spray: Pressure 1800-2200 psi Tip011 - .015"</p> <p>Cleanup: Clean tools/equipment immediately after use with Polane[®] Reducer</p> <p>Follow manufacturer's safety recommendations when using any solvent.</p>

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 Industrial Wash Primer, P60G2, RoHS Compliant Wash Primer, P60G10, or Kem Aqua® Wash Primer, E61G522.

Galvanized Steel (untreated): Prime with Industrial Wash Primer, P60G2, RoHS Compliant Wash Primer, P60G10, or Kem Aqua® Wash Primer, E61G522.

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 Product Finishes Sales Representative for system recommendations.

Steel: 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 Industrial Wash Primer, P60G2, RoHS Compliant Wash Primer followed by Polane® Plus Sealer, E65A71. For best corrosion resistance, prime with 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.

SPECIFICATIONS

Product Limitations:

- Polane® Dead Flat Black must be catalyzed. Do not vary catalyst ratio. The catalyst ratio has been established for optimum hardness, flexibility, gloss, chemical and solvent resistance. Slight over or under catalyzation will not seriously affect performance.
- Polane® Catalyst V66V27 is recommended for interior use only. This product is not intended for exterior exposure application because of limited color and gloss retention properties.
- Do not blend with other products qualities, No other catalysts or reducers are recommended because foreign materials such as alcohols and glycols destroy performance properties. Lacquer thinners and alcohol containing solvent blends should not be used with Polane® enamels.
- Polane® coatings are not recommended for exterior use on wood.
- Do not spray hot, heat shortens pot life. Do not pump catalyzed material from drums into circulating systems. Friction heat developed by pumps and circulation will shorten potlife.
- Protect Polane® enamels, catalyst and reducer from moisture as water affects pot life 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-product could cause improper cure and adhesion failure in use.

Performance Tests

Salt Spray Test.....	100 hours
Humidity 100°F, 100% RH.....	500 hours
Pencil Hardness.....	H-2H
Taber Abrasion CS 17 wheel, 1000 g, 1000 cycles.....	<100 mg
Water Immersion, Fresh, Salt, Distilled....	100 hours
Acetone, 20 rubs.....	No effect
Gasoline, 20 rubs.....	No effect
Lacquer Thinner, 20 rubs.....	No effect
Xylo, 20 rubs.....	No effect

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.

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