Product Finishes

Polane® S Topcoat

Low Gloss Clear.....F63VF0002
Catalyst V66V00029

DESCRIPTION

Polane® S Clear Topcoat, is a two component low gloss polyurethane designed as a clear protective coating for metal, plastic and interior wood

Advantages:
- Air or Force dry
- Excellent chemical and water resistance
- Excellent mar and abrasion resistance
- Excellent adhesion to metal, plastic and wood surfaces
- Excellent exterior durability
- Excellent gloss retention
- Low Cure requirements

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

CHARACTERISTICS

Gloss: 0 – 8 units
Volume Solids: 23 ± 2% (theoretical)

Weight Solids: 30.2 ± 1%
Viscosity:
13 -15 seconds #2 Zahn Cup
Recommended film thickness:
Mils Wet 4.3 – 6.0
Mils Dry 1.0 – 1.5
Spreading Rate (no application loss)
376 sq. ft. /gal @ 1.0 mils DFT
Drying (77°F, 50% RH):
To Touch: 15 - 20 minutes
Tack Free: 1 – 2 hours
To Handle: 4 – 8 hours
To Recoat: 15 – 30 minutes
To Pack: overnight

Force Dry: Flash time: 15 minutes
30 minutes at 140 °F
Do not exceed the heat distortion temperature of the substrate.

Flash Point: 80°F Pensky-Martens Closed Cup
Mixing Ratio:
8 parts Part A
1 part Catalyst V66V29

Pot Life: 8 hours
Package Life: 2 years, unopened

CHARACTERISTICS (cont.)

Air Quality Data:
Non-photo chemically reactive
Photo chemically reactive
Volatile Organic Compounds (VOC)
Theoretical as packaged, maximum, less water and exempt solvents
5.6 lb. /gal, 671 g/L
Volatile Hazardous Air Pollutants (VHAPS) as packaged, 0.0 maximum

An Environmental Data Sheet is available from your local Sherwin-Williams facility.

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

Aluminum: A proprietary chrome phosphate treatment is required.

Aluminum: A minimum of a 5 stage chrome phosphate metal treatment, or equivalent, is required for good adhesion and optimum coating performance properties.

Galvanized Steel: If 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 Coatings Sales Representative for system recommendations.

CHARACTERISTICS (cont.)

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.

Wood (interior only)**:** Must be clean, dry, and finish sanded. Substrate should be free of grease, oil, dirt, fingerprints, and any contamination to ensure optimum adhesion and coating performance properties. Moisture content of wood should be 6 to 8%.

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

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

Conventional Spray:
Air Pressure.....40 – 50 psi
Fluid Pressure .....5 – 10 psi
Cap/Tip..... .047

Airless Spray:
Pressure .....2000 – 2800 psi
Tip…….. .011 - .013"

Air Assisted Airless:
Air Assist Pressure .....10 – 30 psi
Fluid Pressure .....1500 – 2100 psi
Cap/Tip…… .011 - .013

HVLP:
Air Pressure at the cap .....8 – 10 psi
Fluid Pressure .....5 – 10 psi
Cap/Tip …….. .0.055

Cleanup:
Clean tools/equipment immediately after use with MAK, MEK, MIBK or reducers. Check for HAPS compliant if needed.

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Product Limitations:

- Drying time is dependent on dry film thickness and atmospheric conditions. Heavier film thickness causes slow drying. Use of a primer will also slow drying.
- Not recommended for dip application.
- For improved corrosion resistance use of a primer is recommended.
- Protect Polane enamels, catalysts and reducers 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 build up of organic solvents and reaction by products could cause improper cure and adhesion failure in use.
- Store below 100°F
- Do not exceed 2.5 mils dry film with airless or air assisted airless equipment due to sagging tendencies.

CAUTIONS

Thoroughly review product label for safety and cautions prior to using this product.
A Safety Data Sheet is available from your local Sherwin-Williams facility.
Please direct any questions or comments to your local Sherwin-Williams facility.

Catalyst CONTAINS ISOCYANATES. People, who have chronic (long-term) lung or breathing problems or have had a reaction to isocyanates, must not be in the area where this product is being applied. Where overspray is present, a positive pressure air-supplied respirator should be worn. If unavailable, a properly fitted organic vapor/particulate respirator may be effective. Consult catalyst MSDS and product label for complete handling instructions.

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.

Building Products/Columbus
Tim Carlson
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