SHERWIN WILLIAMS.

POLANE® Clear Topcoat

Clear F63V1
Catalyst V66V29

DESCRIPTION

POLANE® Clear Topcoat is a two component gloss polyurethane coating designed as a clear protective coating for metal, plastic, and wood substrates.

Advantages:
- Excellent chemical and water resistance
- Excellent mar and abrasion resistance
- Excellent hardness and impact resistance
- Excellent adhesion to metal, plastic, and wood surfaces
- Full gloss and water white color
- Air dry or force dry
- Protects polished and unpolished metal from oxidation and corrosion
- Very durable clear wood finishing system for interior uses
- Meets KCMA Finish specification
- May be applied with varied spray equipment
- May be shaded to transparent colors
- May be flattened to lower glosses

Typical uses:
- Metallized plastic plumbing fixtures
- Golf Clubs
- Brass, copper, aluminum, and steel hardware, trim panels, and name plates
- Kitchen cabinets

CHARACTERISTICS

Gloss: Full, 85+ units
Volume Solids: 23% ± 2%
catalyzed and reduced
Viscosity:
19-23 seconds #2 Zahn Cup
Recommended film thickness:
Mils wet 4.0 - 5.0
Mils dry 1.0 - 1.2
Spreading Rate (no application loss)
294-401 sq ft/gal @ 1.0-1.2 mils DFT
Air Drying (1 mil dft, 77°F, 45% RH):
To Touch: 6-8 hours
To Handle: 8-10 hours
To Pack: overnight
Force Dry: 30-90 minutes at 140-225°F
Do not exceed the heat distortion temperature of the substrate.
Mixing Ratio:
7 parts F63V1
1 part Catalyst V66V29
Pot Life: 8 hours
temperatures higher than 80°F will shorten the pot life
Accelerated Drying:
Add one ounce of Polane Accelerator, V66VB11 per gallon of F63V1.
To Handle: 2-4 hours
To Pack: 4-6 hours
Mixing Ratio:
7 parts F63V1, including Accelerator
1 part Catalyst V66V29
Pot Life: 3-5 hours (accelerated)
Flash Point: 40°F, Pensky-Martens Closed Cup
Package Life: 3 years, unopened

Air Quality Data:
Non-photochemically Reactive.
Volatile Organic Compounds (VOC) as packaged, maximum
6.1 lb/gal, 732 g/L
Catalyzed as above (Air Drying)
5.65 lb/gal, 678 g/L

An Environmental Quality 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.
Plastic: Mold release must be removed from the substrate. A filler or primer/barrier coat may be required.
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 Chemical Coatings 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.
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.
Seal wood with a full coat of Sher-Wood Vinyl Sanding Sealer, catalyzed per sealer data page.

Testing: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.

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APPLICATION

May be applied by:
Conventional
HVLP
Electrostatic Spray

Do not apply by dipping, brushing, or flo-coating.

Conventional Spray:
Air Pressure ..... 40-50 psi
Fluid Pressure ..... 6-10 psi

Cleanup:
Clean tools/equipment immediately after use with Polane Reducer only.
Follow manufacturer's safety recommendations when using any solvent.

Gloss Adjustments:
Gloss can be lowered by intermixing with Flattening Paste, D64F100.

Mixing Ratio	Parts			
F63V1	7	7	7	7
D64F100	0	1	1½	2
V66V29	1	1	1	1
Gloss at 60° approximately	Full	50-70	45-65	30-40

SPECIFICATIONS

Product Limitations:
- Polane Catalyst V66V29, must be used to achieve proper performance. Do not vary catalyst ratio (7:1) which has been established to provide optimum hardness, flexibility, gloss, and chemical resistance.
- 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.
- Not intended for extensive exterior exposure on metal or plastic.
- 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.
- Store in lined containers only.
- Polane Clear may evidence a yellowing appearance on aging or exposure.

CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION

Thoroughly review product label and Material Safety Data Sheet (MSDS) for safety and cautions prior to using this product.

A Material Safety Data Sheet is available from your local Sherwin-Williams facility.

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

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.