



General Industrial Coatings

CC-D12

POLANE® Clear Topcoat

Clear.....F63V1 Catalyst.....V66V29 Custom Blend Series F63AX

DESCRIPTION

Polane® Clear Topcoat is a two component high 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, water white clear
- Air dry or force dry
- Protects polished and unpolished metal from oxidation and corrosion
- Very durable clear wood finishing system for interior uses
- Designed to meet KCMA Finish specification
- May be applied with varied spray equipment
- May be shaded to transparent colors
- May be flattened to lower glosses

Typical Uses

- Metalized plastic plumbing fixtures
- Golf Clubs
- Brass, copper, steel hardware, trim panels, and name plates
- Kitchen cabinets

*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 (60°): 85+ units

Volume Solids: 24 ± 2 %
Catalyzed and reduced

Viscosity: 19-23 secs., #2 Zahn Cup

Recommended Film Thickness:
Mils Wet 4.0-5.0
Mils Dry 1.0-1.2

Spreading Rate (no application loss):
320-385 ft.²/gal. at 1.0-1.2 mils DFT

Air Drying: 1 mils 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

Substrate Disclaimer: Curing of coating at temperatures higher than the heat distortion parameters of the substrate may cause substrate issues.

Mixing Ratio (by volume):
F63V1 7 Parts
V66V29 1 Part

Potlife: 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 (by volume):
F63V1, including accelerator 7 Parts
Catalyst V66V29 1 Part

Potlife: 3-5 hours (accelerated)

Flash Point (Pensky Martens Closed Cup): 40° F

Package Life: 3 years, unopened
V66V29 24 months, unopened

Air Quality Data (Theoretical)

- Non-photochemically reactive
Volatile Organic Compounds (VOC)*
- As packaged, maximum, less exempts: 6.1 lbs/gal, 732 g/L
 - Catalyzed as above (air drying) 5.65 lbs/gal, 678 g/L

SPECIFICATIONS

General: All substrates should be free of mold release, oil, grease, dirt, fingerprints, drawing compounds, surface passivation treatments and any other contaminants to ensure optimum adhesion and coating performance. 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 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: 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
Electrostatic Spray
HVLP Spray
Do not apply by dip, brush or flow coat.

Conventional Spray:

Air Pressure 40-50 psi
Fluid Pressure 6-10 psi

Cleanup: Clean tools and 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 @ 60°	Full	50-70	45-65	30-40

The above results are approximate and should be thoroughly tested before use.

ADDITIONAL INFORMATION

1. Polane Clear Topcoat must be catalyzed with V66V29 to achieve proper performance. Do not use V66V27 or any other catalyst. **Do not vary catalyst ratio (7:1)** which has been established to provide optimum hardness, flexibility, gloss, and chemical resistance.
2. Heat shortens potlife. Do not spray hot. Do not pump catalyzed material into circulating systems. Friction heat developed by pumps and circulation will shorten pot life.
3. Protect from moisture, water affects pot life and product properties. Store indoors.
4. Do not package Polane coated products in airtight plastic bags unless completely cured. Polane continues to cure for several weeks, the buildup of organic solvents and reaction byproducts could cause improper cure and adhesion failure in use.
5. Do not apply to wood for exterior use.
6. Not intended for extensive exterior exposure on metal or plastic.
7. 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.
8. Store in lined containers only.
9. Polane Clear Topcoat may present a yellowing appearance on aging or exposure.
10. Compatible with GIS, Opticolor Express & Phoenix colorants.

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CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review the 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:

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