SHERWIN-WILLIAMS

AEROSPACE COATINGS

PRODUCT DATA

POLANE® L
Semi-Gloss Polyurethane Enamel

ADVANTAGES

- Approved by Boeing under their BMS 10-83N Type II, III and V specification
- Polane® L is the sole product qualified to the BMS 10-83, Type II, III, and V specification
- Product proven – over 20 years successful use at Boeing for cabin interiors of commercial aircraft
- Fast drying
- Low energy curing system for heat sensitive substrates
- Very good physical and chemical resistance
- Excellent adhesion to plastic and metal substrates and to recommended primer
- Excellent film flexibility
- Full color range available through intermix system
- Easy to handle and use
- Versatile application properties
- Non-photochemically reactive
- Excellent hardness, mar and abrasion resistance
- Texturable
- Meets FAA FAR 25.853 regulation
- Meets the flammability, yellowing resistance and smoke stain resistance requirements of the Boeimg BMS 10-83K specification.

DESCRIPTION

Polane® L Semi-Gloss Polyurethane is a two component polyurethane coating formulated for the finishing and refinishing of plastic and metal components within the cabin and cockpit of commercial aircraft. Polane® L products are approved and widely used by The Boeing Company and others under Boeing BMS 10-83N specification.

COATING PROPERTIES

Gloss:	Semi-Gloss (20-30 units) Type II Low Gloss (8-12 units) Type III Flat (0-5 units) Type V
Volume Solids:	16-28% (varies by color) Catalyzed and Reduced: 16-23.5% (varies by color)
Recommended film thickness:	Mils wet 4.0 – 6.0 Mils dry 0.8 - 1.2
Spreading Rate	(Catalyzed and Reduced): @ 1 mil DFT: 260-375 sq ft/gal No application loss, varies by color
Pot Life:	16 hrs at room temperature
Flash Point:	23°F Pensky-Martesn Closed Cup

SHELF LIFE

Shelf Life is applicable only for materials stored in unopened and undamaged original factory filled containers.

Minimum Storage Temp:	40ºF / 4ºC
Maximum Storage Temp:	100ºF / 37ºC

H99 Series Colors or F63 Polane L Series Colors:	2 years
V66VC229 Catalyst:	1 year
R99KY29 Reducer:	7 years

SPECIFICATIONS

General: Surface should be free of grease, dirt, fingerprints, rust and other foreign matter to insure optimum adhesion.

Plastic: Clean thoroughly to remove contaminants and mold release agents. Use isopropyl alcohol or other suitable solvent cleaner. If necessary, prime with POLANE® Primer E61WC40 to obtain adhesion. Test system integrity before use or consult your Sherwin-Williams Representative for additional information.

Steel & Aluminum: Chemical treatment or conversion coating is recommended. Primer with POLANE® Primer E61WC40 if required.

MIXING INSTRUCTIONS

Shake color component for 10-15 minutes before admixing.

Admix by Volume:

7 Parts Polane® L Series Colors
Boeing Certified Material
F63WY8 – BAC 700
F63BY6 – BAC 706
F63HY8 – BAC 870
F63WY30 – BAC 7363
H99 Series Numbers (blended colors)

Or

Non-Boeing Certified Material
F63 Series Numbers (blended colors) *
Also refer to JetFlex PDS

1 Part Polane® Catalyst
V66VC229

Reduce application to desired viscosity with 25-50% R99KY29 Reducer.

Admixed product should be allowed a 15-minute induction time for optimum application performance.

It is recommended to strain admixed paint before placing material in containers for spraying.

Texturing: Catalyze and reduce as needed (0-50%)

Safety Cautions: This product must be mixed with a POLANE Catalyst containing isocyanates.

* All previously assigned F99 numbers have been discontinued and have been replaced with F63 numbers (non-certified material).

APPLICATION

May be applied by:

Conventional
HVLP

Cleanup: Use POLANE Reducer RKB29, R7K84, or MEK CM0110308. Follow manufacturer's safety recommendations when using any solvent.

DRYING SCHEDULE

Air Dry Times (75°F / 25°C and 45% RH)

To Touch	10-15 minutes
To Handle	30-60 minutes
Dry Through	2 hours

Force Dry (140°F/ 60°C)

Dry Through	30 minutes

PRODUCT LIMITATIONS

• Do not spray hot
• Do not vary catalyst ratio. The catalyst ratio has been established for optimum hardness, flexibility, gloss and chemical and solvent resistance. Slight over or under catalyzation will not seriously affect performance.
• Because of many types of compositions of plastic available, each user should test on his substrate before production use. Consult your Sherwin-Williams representative for additional information.
• Curing temperature must not exceed the heat distortion temperature of the plastic substrate. Protect POLANE Enamels, catalyst and Reducer from moisture as water affects pot life and properties. Store indoors.
• Do not package POLANE coated products in air-tight plastic bags unless completely cure. 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.
• Do not blend with any other polyurethane quality.
• Do not use lacquer thinners and alcohol containing solvent blends because they will neutralize the curing mechanism and destroy performance properties.
• Customers should verify FAA FAR 25.853 regulation compliance on their substrate and system.

PRODUCT INFORMATION

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.