

PRODUCT DATA SHEET

PT-107 MOISTURE & FUNGUS RESISTANT VARNISH PTI VARNISH SERIES

DESCRIPTION

PT-107 is a single varnish that is fungus and moisture resistant that meets and exceeds **MIL-V-173C** and is an excellent coating for any electronic and/or electrical applications. This product is available in bulk and aerosol cans. The PT-107 can be applied at regular assembly position, is convenient for field touch up and is always ready for use with no waste. This product is typically used for the following applications:

- Cables
- Cans
- Capacitors
- Resistors
- Chasis
- Potentiometers
- Terminals
- Metal Joints
- Soldered Joints
- Chokes
- Coils
- Condensers
- Cordage
- Wires
- Sockets
- Switches
- Transformers
- Relays
- Labels

COLORS

This coating is typically clear but can be dyed per customer specification and request. Custom dyes/colors are also available.

COATING PROPERTIES & CHARACTERISTICS

NSN	5970-00-832-6950
Fungistatic Content	7%
Reducer	PT-1022X66
Storage Stability	6 months – holds color & viscosity with no sediment
High Temp Stability	Cure 72 hours before subjecting to heat: <ul style="list-style-type: none"> • Max Operating Temp. 300° F • Short Term Temp. 350° F • Yellows at 200° F
Low Temp Stability	24 hours at 32°F remains clear
Dry Time	<ul style="list-style-type: none"> • Dry to Touch 1 hour • Tack Free 5 hours max. • Dry Hard 48 hours max
Dialectric Strength	1120 volts/mil
Thermal Shock/Bending	
Insulation Resistance	At least 10 times that of uncoated specimens – 1000 megohms max
Fungus Resistance	Resists Growth

SHELF LIFE

Shelf life is only applicable for materials stored in unopened and undamaged original factory filled containers. 1 year when stored between 50°-85° Fahrenheit.

PRODUCT DATA SHEET

MIXING INSTRUCTIONS

Shake component A in a paint shaker for 5 – 10 minutes for optimal results.

Reduce: Use PT-1022X66 to thin this product.

- **If Spraying:** Reduce to spray viscosity typically no more than 10%
- **If Brushing:** Do not thin, spraying is recommended.

APPLICATION

This product can be applied by brushing, rolling, aerosol conventional air spray equipment or a HVLP spray system. Please consult with a PTI representative for specific equipment recommendations and settings.

1. Make sure pots, guns, and lines are purged and cleaned.
2. Mix both paint and reducer thoroughly and filter/strain before spray application.
NOTE: It is not recommended to strain flat/matte coatings.
3. HVLP Spray Pressure: 7-10psi. Conventional spray pressure 15-30psi
4. Always air-blow and tack wipe the surfaces to be painted. Metal parts should be grounded to prevent static.
5. Best application results: apply 2 coats: 1 fog/tack coat & 1 full coat from 0.6 – 1 mil thickness.
6. Recommended Dry Film Thickness is 1-1.2 mils. Some colors may require thicker films to achieve hiding.

NOTE: Application of PTI products requires the use of all OSHA approved safety equipment, including proper ventilation. Additionally, PTI products require the recommended temperature/humidity conditions and film thickness ranges for optimal performance. The material, hangar, and aircraft skin temperatures should be no lower than 75° F / 25° C before, during and after application.

DRYING & CURING SCHEDULE

Dry times are based on the dry film thickness between 1-1.2 mils (25-50 microns).

Air Dry Times (75°F / 25°C and 50% Relative Humidity)

Set to touch in 60 minutes; Tack free in 5 hours maximum; Dries hard in 8 hours maximum; Full cure in 72 hours.

EQUIPMENT CLEANUP

Use the recommended reducers, IPA or Acetone. Do not allow material to dry or cure inside any equipment.

HEALTH, SAFETY, & STORAGE REQUIREMENTS

Refer to each individual material SDS (Safety Data Sheet) for specific requirements on the health, safety, storage and handling requirements. Follow all local, state, and national regulations during surface preparation, material application and cleanup.

PRODUCT INFORMATION & DISCLAIMER

Product Data Sheets are periodically updated to reflect new information. It is important to use the latest and most recent revision for the product being used. The foregoing information is accurate to the best of our knowledge.

PRODUCT DATA SHEET

However, due to differences in customer handling, use and method of application which are not known and are beyond our control, Products Techniques, Inc. makes no warranties as to the end result.