



Polyurethane Varnish™ PV-357

Int/Ext Polyurethane Varnish Gloss

Description:

Polyurethane Varnish™ is a polyurethane resin varnish with natural stain, clear gloss, that protects against weather, water, abrasion, alcohol, and household chemicals in wood and metal surfaces, for interior and exterior use.

Meets Requirements for:

MPI:	N/A
Green Performance 1:	N/A
Green Performance 2:	N/A
VOC Compliant (<500g/L):	NO

Product Advantages:

- Excellent anchoring to the surface
- Protects and gives gloss to wood
- Strong and flexible finish
- UV resistant
- For domestic and professional use
- Does not turn yellow

Uses:

Heavy metal and lead free Polyurethane Varnish™ is especially formulated to protect and preserve the natural beauty on sealed new wood or previously stained interior or exterior wood surfaces. Quickly renews old, dull surfaces such as furniture, doors, woodwork, cabinets. Recommended for floors only when high traffic areas are covered with rugs or carpet runners.

Technical Data:

Product Type:	Alkyd Resin
Finish:	Gloss (80°-100°) *Geometry 60°
Solids (%):	50 ± 2% by weight 43 ± 2% by volume
Weight/Gallon:	7.5 ± 0.05 lbs. (3.4 ± .02 kg.)
Color:	Clear
Drying Time:	To touch: 1 hr. To recoat: 2 - 6 hrs.
Coverage:	Theoretical: Up to 684 ft. ² per gallon @ 1 mil Recommended: 470-515 ft. ² /gal. (44-48 m ² /gal.) @ 1.4 dry mils, 3 wet mils
Sizes:	1 gallon 1 quart
Thinning:	Is not recommended.
Flash Point:	20 °F TOC
Viscosity:	120 - 150 cp
VOC:	<500 g/L

Notice: The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.

F.D.S.: Available upon request.

Surface Preparation:

All surfaces must be dry, clean, sound and free of contaminants. Remove all dirt, grease, mildew, oil, dust, and other soluble contaminants. Remove all loose detrimental foreign matter by scraping, sanding or power sanding. Glossy surfaces should be lightly sanded.

New Wood: Sand down to a smooth finish with fine sandpaper following the grain. Remove all sanding dust by vacuuming or dusting the surface with a "tack" cloth. Fill knot holes and cracks with Lanco® Wood Filler; let dry. Sand the filled areas smooth and remove dust.

Previously Painted Surfaces: This coating is for application to unfinished wood surfaces or to surfaces previously finished with a similar finish in good conditions. Remove wax and oil using Lanco® LT-102 Lacquer Thinner. Sand smooth to dull glossy areas using a medium sandpaper (#120) and working your way to a thinner grade (#220). Always sand in the direction of the grain. Remove all dust. Severe chipping or peeling may require stripping to bare wood with Lanco® Safe Strip™, clean thoroughly and let it dry completely. Sand with fine sandpaper (#220) and remove all dust. If doubt exists concerning compatibility of this coating with the previous system, apply coating to a small area and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting or any other sign of incompatibility. If there are no signs, coating work can proceed.

Mixing: This is a one component coating. Always hand mix thoroughly with a paddle before application. Do not mix excessively to avoid air in the coating. Do not shake.

Method of Application:

Apply by brush or roller, use Lanco® All Purpose Roller 3/8" Nap PA-566 or conventional or airless spray. Roller application may require special care to prevent bubbling and more than one coat to obtain proper thickness. Apply at 3 mils wet film thickness that will yield 1.4 mils dry film thickness. With a clean soft varnish brush apply a thin, smooth coat brushing in grain direction. Maintain a wet edge and brush out any lap marks. A second coat, if desired, may be applied without sanding as soon as first coat is dry. If allowed to dry more than 12 hours, sand or buff with fine sandpaper (#220) or steel wood to insure proper adhesion between coats. Remove all dust before varnishing.

Equipment: Conventional Spray: For suction feed, use DeVilbiss MBC gun with "E" tip and needle and 30 air cap or equivalent at 35-40 psi atomizing pressure feed. For pressure feed, use DeVilbiss MBC gun with tip and needle and 704 air cap or equivalent at 35-40 psi atomizing pressure and 5-8 psi fluid pressure, 3/8" ID material hose, double regulated pressure tank with oil and moisture separator.

Airless Spray: Minimum of 28:1 ratio pump, 0.011"-0.013" orifice tip 1/4" ID Teflon material hose.

Limitation: Apply in good weather when air and surface temperature are above 40°F and surface temperature is at least 5°F above the dew point. For optimum application properties, material should be between 70° to 100°F prior to mixing and application.

Note: When multiple coats of product are applied, be sure to sand lightly between coats with a fine sandpaper and dust clean or vacuum. **Cleanup:** Wipe up drips and spatters with Lanco® Mineral Spirits MS-107. Clean all equipment with this solution.

Caution: Do not take internally. Close container after each use. Keep out of the reach of children. Combustible; keep away from heat and open flame. Avoid prolonged contact with skin and breathing vapors or spray mist.

DANGER / WARNING:

PRECAUTION: FLAMMABLE MIXTURE, DO NOT USE NEAR FIRE OR FLAME.

CONTAINS: PETROLEUM DISTILLATES. USE ONLY WITH ADEQUATE VENTILATION.

AVOID PROLONGED OR REPEATED BREATHING OF VAPOR.

It is important to use adequate ventilation as high vapor concentration may cause unconsciousness or even asphyxiation. Ventilation must be sufficient to limit exposure below MSDS limits. Eye irritation and dizziness are indications of over exposure.

Refer to LANCO MATERIAL SAFETY DATA SHEET.

PROVIDE ADEQUATE VENTILATION DURING APPLICATION AND DRYING CYCLES. DO NOT TAKE INTERNALLY. Swallowing may cause injury, illness or death. If swallowed, do not induce vomiting. Call a physician immediately.

NOTICE: Reports have associated repeated and prolonged occupational over exposure to solvents, with permanent brain and nervous system damage, peripheral nervous tissue damage and liver abnormalities. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

ALWAYS WEAR RESPIRATORY PROTECTION (NIOSH, MSHA TC 23C OR EQUIVALENT). KEEP OUT OF REACH OF CHILDREN.