



WOOD GUARDIAN™ Satin Urethane Varnish

PP857

WOOD GUARDIAN Satin Urethane Varnish No. PP857 is an excellent, interior/exterior, satin gloss, urethane wood varnish for doors, woodwork and trim, floors, cabinets, paneling, furniture, porches, sundecks, lawn furniture and boat decks. This is a hard, durable, abrasion resistant, satin gloss varnish for use in all types of varnish applications where extra durability, abrasion resistance or weather resistance are required.

USED FOR	FEATURES
<ul style="list-style-type: none"> • Woodwork, trim • Doors • Floors • Cabinets • Paneling, beams • Furniture • Top side of boats 	<ul style="list-style-type: none"> • Hard, durable surface • Abrasion resistant • Satin gloss • Excellent flow & leveling • Resistant to household cleaners • Interior and exterior

RECOMMENDED SYSTEMS

WOOD GUARDIAN Satin Urethane Varnish No. PP857 is normally used as a primer/finish system over properly prepared wood. **Typical Finish Systems with WOOD GUARDIAN Satin Urethane Varnish No. PP857 are:**

STAIN (if required):

- WOOD GUARDIAN Interior Alkyd Wiping Wood Stain No. PP832
- WOOD GUARDIAN Penetrating Stain/Finish No. PP835

SEALER:

- WOOD GUARDIAN Satin Urethane Varnish No. PP857

FINISH:

- WOOD GUARDIAN Satin Urethane Varnish No. PP857—one or two coats. (NOTE: For best service in exterior applications, apply two coats over the seal coat.)

LIMITATIONS

Do not apply over sanding sealers. Do not use in severe chemical environments. Do not apply when air or surface temperature is below 40°F (4°C) or above 110°F (43°C). Surface temperature must be at least 5°F above dew point. For optimum application properties, bring material to 65-80°F (18-27°C). Use for service below 180°F. Do not shake container. Apply only by natural bristle brush. (Note: Clear coats of any kind have limited exterior durability and may require more maintenance than pigmented paint coatings.)

TECHNICAL DATA

Product Type:	Urethane modified oil
Color:	PP857 Clear (not tintable)
Gloss, 60°:	Satin (Typical range: 37 - 43)
Percent Solids:	
Weight:	52 ± 2%
Volume:	43 ± 2%
Weight/Gallon:	7.6 lb
Viscosity (Initial):	F - I (Gardner Bubble Viscosity)
Thinner:	Thinning is not required.
Clean-up:	Porter Paint Thinner No. 5132.
Recommended Film Thickness:	
Wet:	3.2 mils
Dry:	1.4 mils
Recommended Spread Rate (Theoretical):	
Smooth Surfaces:	Up to 500 sq. ft./gal.
Rough Surfaces:	300-350 sq. ft./gal.
Dry time (70°F @ 50% R.H.):	
To Touch:	4 hours
To Recoat:	16 hours
To Walk on:	24 hours

(Expect longer dry times at lower temperatures and higher relative humidity.)

Flash Point: 101°F (38°C)

Flame Spread Rating: Class A (0-25)

(See Porter Technical Bulletin No. 9: Flame Spread Rating.)

Federal Specification Crossover: None

(See Porter Technical Bulletin No. 6: Federal Specification Performance Crossover.)

Note: This product is not formulated with lead or mercury containing materials.

REGULATORY DATA

VOC (theoretical):

As supplied (untinted): 3.72 lb/gal (446 g/l)

SURFACE PREPARATION

Paint only clean, dry, deglossed and profiled surfaces. Remove dirt, oils, grease, wax, release agents, sanding dust, paint remover, etc. with Soilax or TSP and water, Porter Paint Thinner No. 5132 or other appropriate cleaners, or by vacuuming as necessary. Remove mildew by washing with a commercial mildew remover such as X-14 Mildew Remover or a mix of 1 part chlorine bleach to 3 parts clean water (rinse thoroughly after 15 minutes).

NEW/BARE WOOD: Repair construction defects as necessary. Fill openings and nail holes with a suitable wood putty or filler. When filler is ready, sand all surfaces smooth and clean surfaces. For best results, wipe the sanded surfaces with a tack rag just prior to application of WOOD GUARDIAN Satin Urethane Varnish No. PP857.

RECOAT: (NOTE: Best service will be achieved by removing failing varnish systems completely, down to bare wood, then preparing as above.) For varnishes in good condition except for minor, random failed areas, remove any loose and failing coating by hand scraping or power tool cleaning, and lightly sand sound varnish to degloss and profile the surface. Fill holes and gouges with wood patch or filler as appropriate. Sand patched and bare wood areas smooth as necessary before staining (see above), if required.

INSTRUCTIONS FOR USE

Tinting: Do not tint.

Mixing: Stir thoroughly (**do not shake**) before application.

Thinning: Thinning is not normally required. To meet 450 g/l VOC limit, thin the first coat sparingly with 1 ounce per gallon of Porter Paint Thinner No. 5132. Local regulations may allow additional thinning. Apply additional coats unthinned.

Clean-up: Clean tools with Porter Paint Thinner No. 5132 immediately after use.

Application:

Conditions:	Temperature Range:	40°F to 110°F (air, surface, paint) (Optimum paint temperature 65-85°F)
	Dew Point:	Surface temperature must be at least 5°F above the dew point.
	Relative Humidity:	Maximum 85%
Equipment:	Brushes:	Use a natural bristle varnish brush.
Directions:	New Work:	(NOTE: <i>If the wood is to be stained, apply the selected Porter wood stain per label directions before proceeding. Allow the stain to dry thoroughly before application of a seal coat.</i>) Apply a uniform coat of WOOD GUARDIAN Satin Urethane Varnish No. 857 thinned 2 ounces per gallon with Porter Paint Thinner No. 5132. Finish with one or more coats of WOOD GUARDIAN Gloss Alkyd Floor & Trim Varnish No. PP857 unthinned. Sand between coats as necessary.
	Recoat:	(<i>If necessary, stain any exposed bare wood to match existing color before continuing.</i>) Spot prime bare wood and patches with WOOD GUARDIAN Satin Urethane Varnish No. PP857 thinned 1 ounce per gallon with Porter Paint Thinner No. 5132 and allow to dry 16 hours. Apply a thinned coat of WOOD GUARDIAN Satin Urethane Varnish No. PP857 to all surfaces. Finish with one or more coats of WOOD GUARDIAN Satin Urethane Varnish No. PP857 (unthinned) as necessary for desired appearance and protection. Sand between coats for best results.

PRECAUTIONS

Prior to using this product, the user is specifically directed to obtain and read the current Material Safety Data Sheet and Label for this product. If, after reading these documents, you do not understand them, do not use this product. KEEP OUT OF REACH OF CHILDREN.

SHIPPING

Freight Classification: PAINT OR PAINT RELATED MATERIAL

Packaging: 6 Quarts per carton; 4 Gallons per carton

Shipping Weights: 2.2 lb/qt (13.6 lb/carton); 8.4 lb/gal (34.5 lb/carton)



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