



Z-Spar Satin Varnish

Satin Sheen Interior Varnish

TECHNICAL BULLETIN **TB350** 5/13

- Fast drying
- Easy to apply
- Extremely durable finish
- Pale color is ideal for all interior bright work
- Fewer coats required for superior performance



This interior varnish is highly regarded for its reliable service, versatile application, fast dry, and tough yet flexible durability. Satin Varnish V-975 eliminates the hard labor of rubbing down a gloss varnish to produce a satin finish. This combination of polyurethane resins provide excellent performance. It's warm, light amber hue will enhance the classic interior bright work appearance. Satin Varnish is ideal for all interior bright work where high gloss is undesirable. This varnish resists water spotting, alcohol, and oil. Not for use

below the waterline.

PHYSICAL DATA

PART NUMBER: V-975
 RESIN: Polyurethane
 SOLIDS (theoretical)
 By volume: 40 ± 1%
 COVERAGE: 440 sq. ft/gal.
 VOC: 477 g/l (3.98 lbs/gal) as supplied
 FLASH POINT: 104° F.

APPLICATION DATA

METHOD: Brush, Roller, or Spray
 NUMBER OF COATS:
 Bare Wood: 3 minimum
 Existing Varnish: 2 minimum
 DRY FILM THICKNESS PER COAT: 1.25 mils
 APPLICATION TEMP: 40° F. Min. / 90° F. Max.
 DRY TIME (HOURS):

	Set-to-touch	Tack Free	Dry Hard
90°	1/2-1 hrs	1-2 hrs	8-12 hrs
70°	1-2 hrs	2-4 hrs	12-20 hrs
50°	2-4 hrs	4-8 hrs	24-48 hrs

THINNER:
 120 Brushing Thinner
 121 Spraying Thinner

ASSOCIATED PRODUCTS

2018 EZ WoodSealer
 Pettit Paste Wood Filler Stains
 Z-Spar Filler Stains
 120 Brushing Thinner
 121 Spraying Thinner



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APPLICATION INFORMATION

Do not shake varnish. Stir well to mix in flattening agent before application, being careful not to introduce air bubbles into the varnish. Z-Spar Satin Varnish V-975 may be applied by brush, conventional or airless spray. Thinning is not normally required although on warm days use Pettit 120 Brushing Thinner at 5-10% by volume to ease brushing and maintain good flow and leveling. When spraying, use Pettit 121 Spraying Thinner up to 20% by volume. Spray one even, wet coat to minimize orange peel. Do not apply in heavy films or build coats too quickly as solvent entrapment, blistering or wrinkling may occur. Do not apply Satin Varnish on extremely humid days or when rain is threatening. Do not apply in the late afternoon when working outdoors as the wet film may be adversely affected by dew. DO NOT apply this varnish to a wood hull which has been dried more than one week under conditions such as artificial heat. Do not use Satin Varnish below the waterline on boats that remain in the water. The moisture content of the wood should be a minimum of 15% when varnished. This will eliminate expansion cracking, micro-checking and gloss loss when the varnish is in service.

SURFACE PREPARATION

Wood must be clean, dry and properly prepared prior to varnishing. When sanding wood, always sand with the grain. Use a vacuum, air hose, or tack rag to remove all traces of sanding residue. Follow all surface preparation steps carefully, avoiding shortcuts. Inadequate surface preparation will virtually assure inadequate varnish performance.

SYSTEMS

Bare Wood

1. Sand surface completely smooth with 180-320 grit production paper. Wipe surface to remove sanding residue with a tack rag or rag dampened with Pettit 120 Brushing Thinner.
2. For new work on open grained wood such as mahogany, oak, ash, etc. the use of Pettit or Z-Spar Paste Wood Filler Stain is required to achieve a smooth finish. Let dry overnight. For new work on close grained woods such as pine, maple, spruce, etc. the use of Pettit or Z-Spar Paste Wood Filler Stain is not normally required.
3. Apply a generous covering coat of Pettit 2018 EZ WoodSealer. Let it dry overnight and sand thoroughly with 220 grit sandpaper. On especially rough or porous wood, a second coat of 2018 EZ WoodSealer may be applied. If applied, sand the second coat as well and wipe the surface clean with a tack rag or a rag dampened with Pettit 120 Brushing Thinner.
4. Apply at least three coats of Z-Spar Satin Varnish. Let each coat dry overnight, sand with 220 grit sandpaper, and clean off sanding residue with a tack rag before applying the next coat. Sand the next to last coat with 400 grit production paper and clean off sanding residue with a tack rag before applying the final coat.

Varnished Wood in Good Condition

1. Wipe old varnish with Pettit 120 Brushing Thinner to be sure all dirt, wax, polish and/or grease has been removed.
2. Thoroughly sand the existing varnish with 180-220 grit production paper and wipe clean with a tack rag.
3. Apply at least two coats of Z-Spar Satin Varnish. Let the first coat dry overnight, sand with 400 grit sandpaper and clean off sanding residue with a tack rag before applying the final coat.

Varnished Wood in Poor Condition

1. Remove all the old varnish with a paint and varnish remover or by sanding.
2. Bleach the wood if necessary to remove water stains.
3. Proceed with the system for bare wood shown above.

Bare Teak- (or other woods with high oil content)

1. Sand the wood smooth with 120 grit production paper to open up the grain. Wipe the surface thoroughly with Pettit 120 Brushing Thinner in an effort to aggressively remove as much oil as possible.
2. Apply a generous coat of Pettit 2018 EZ WoodSealer. After an overnight dry, lightly sand the surface with 220 grit sandpaper and wipe it clean with a rag dampened with Pettit 120 Brushing Thinner.
3. Apply at least three coats of Z-Spar Satin Varnish. Let each coat dry overnight, sand with 220 grit sandpaper, and clean off sanding residue with a tack rag before applying the next coat. Sand the next to last coat with 400 grit production paper prior to applying the final coat.

It should be noted that woods with a high oil content may eventually experience adhesion problems as there is no way to totally eliminate the oil and prevent it from migrating to the surface. However, this application technique has proven successful in most circumstances.