



PPG Architectural Coatings

WOOD GUARDIAN™ Penetrating Stain/Finish

**GENERAL DESCRIPTION**

WOOD GUARDIAN Penetrating Stain /Finish (Phenolic/Tung Oil) No. PP835 is an excellent, highly water resistant, interior/exterior, phenolic/tung oil penetrating finish. It is designed to penetrate, seal, harden and protect a wide variety of interior and exterior surfaces. Use as a clear or tinted finish for bare wood surfaces such as new or re-sanded decks, mill work, wood floors and furniture, or as a stain under varnish on floors, doors, etc. On plywood, use as a protective coat or as a water resistant undercoat for paints and enamels. Use as a sealer/finish on concrete, flagstone, slate or brick floors, terraces and hearths to prevent dusting and, in garages, oil staining. WOOD GUARDIAN Penetrating Stain/Finish (Phenolic/Tung Oil) No. PP835 is ideal for large warehouse and industrial floors.

**RECOMMENDED USES**

- Mill work
- Wood floors
- Furniture
- Concrete floors/walkways/patios
- Flagstone, slate, brick floors/hearths/terraces
- Log homes
- Wood decks

**FEATURES / BENEFITS**

- |  |   |
|--|---|
| • Phenolic/tung oil formulation                    | Hard finish                               |
| • Penetrates, strengthens surface                  | Promotes adhesion                         |
| • Use interior or exterior                         | Versatile                                 |
| • Excellent water and weather resistance           | Long lasting                              |
| • Multipurpose for wood, stone, concrete and brick | Eliminates the need for multiple products |

**RECOMMENDED SYSTEMS**

WOOD GUARDIAN Penetrating Stain/Finish (Phenolic/Tung Oil) No. PP835 is typically applied as a one coat, or two coat "wet on wet", system (or as a stain under varnish) over properly prepared wood, concrete, brick, slate and stone surfaces. Material that puddles or does not penetrate into the surface is to be removed with a squeegee or cloth. (NOTE: An exception to removal of the surface build exists with fine furniture finishing where a surface build-up of thin layers results in a high quality, rich satin sheen surface.)

**\*NOTE:** Wet on wet is the process of applying the second coat while the first coat is still wet but has penetrated sufficiently for additional material to further soak into the surface. The guideline to remove excess material that does not penetrate still applies.

**TINTING AND BASE INFORMATION**

Tint with Porter DESIGN SPECTRUM® Colorants per label directions up to 12 ounces per gallon. NOTE: For finishing wood, see the current Porter Exterior Colors card, semi-transparent section, or the Porter Decorator Interior Wood Stain color card. To approximate Porter exterior semi-transparent stain colors (used in No. PP1842 base), use the full stain formula. To approximate clear base stain colors (used in No. PP832 base), tint with 1/2 the full formula. Test tinted stain on a piece of scrap or in a little noticed location before proceeding to be sure that color and appearance are acceptable. PP835 Clear (tintable)PP310 Clear (not tintable)

**PRODUCT DATA**

<b>Product Type:</b>	Phenolic/Tung oil
<b>VOC:</b>	
<b>As supplied (untinted):</b>	4.54 lb/gal (544 g/l)
<b>When thinned to maximum:</b>	4.58 lb/gal (548 g/l)
<b>Sheen:</b>	Satin
<b>Percent Solids: Weight:</b>	36 ± 2%
<b>Volume:</b>	30 ± 2%
<b>Weight/Gallon:</b>	7.1 lb
<b>Viscosity (Initial):</b>	A1 (maximum) Gardner Bubble Viscosity
<b>Thinner:</b>	Thinning is not required under normal environmental and application conditions. If thinning is necessary, to stay within the 550g/l VOC limit, thin sparingly with Porter Paint Thinner No. 5132 up to 2 ounces per gallon. Do not exceed local regulations.
<b>Clean-up:</b>	Porter Paint Thinner No. 5132.
<b>Recommended Spread Rate (Theoretical):</b>	
<b>Prime Coat:</b>	500 to 700 sq. ft./gal.
<b>Finish Coats:</b>	800 to 1,000 sq. ft./gal.
Coverage does not include variation due to application methods, surface proposity, and/or mixing.	
<b>Dry time (70°F @ 50% R.H.):</b>	
<b>To Recoat:</b>	4 hours
<b>To Walk On:</b>	16 hours
<b>To Buff:</b>	24 hours

(Drying times listed may vary depending on temperature, humidity, color, and air movement.)

**Flash Point:** 103°F (39°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.)

**LIMITATIONS OF USE**

Product is not designed to function as a surface coating. Do not build a surface film. Remove with a squeegee or cloth any material that puddles or does not penetrate the surface within a few minutes. For exterior applications, product must be tinted with a minimum of 4 ounces of Porter DESIGN SPECTRUM® Colorants (stir frequently during application to maintain uniform color). CAUTION: Do not place product soaked rags in non-approved containers, or pile them where spontaneous combustion or a fire hazard could develop. If appropriate containers are not available, weight the rags down in water. NOTE: Partial containers of material will harden in the can. To save leftover product, pour into a container small enough for product to fill completely. Attach the label to retain product identification, safety information and application instructions.

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## GENERAL SURFACE PREPARATION

Paint only clean, dry, absorbent surfaces. Remove dirt, oils, grease, wax, sanding dust, paint remover, etc. with PORTERPREP™ Heavy Duty Cleaner No. PP571, Dirtex 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).

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead). Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

**NEW WOOD:** Repair construction defects, sand as necessary. Fill openings and nail holes with a suitable filler if necessary and sand smooth. **OLD WOOD:** Remove old coatings and weathered wood by pressure washing, power tooling or hand scraping and sanding as necessary to achieve a sound, absorbent bare wood surface. Sand smooth if necessary. **CONCRETE FLOORS:** To achieve a uniform appearance, acid etch the floor with muriatic acid (see Porter Technical Bulletin #14, ACID ETCHING CONCRETE). For a dust seal on un-etched concrete, clean thoroughly and allow the concrete to fully dry.

**REAPPLICATION ON WORN OR WEATHERED SURFACES:** Apply test patches in several locations to be sure that the surface is open and porous enough for reapplication. Proceed if the test material strikes into the surface.

## DIRECTIONS FOR USE

Stir thoroughly before using and occasionally during use. Read all label and Material Safety Data Sheet (MSDS) information prior to use. MSDS are available through our website or by calling 1-800-441-9695. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

### Permissible temperatures during application:

<b>Temperature Range:</b>	35°F to 110°F (air, surface, paint) (Optimum paint temperature 65-85°F)
<b>Dew Point:</b>	Surface temperature must be at least 5°F above the dew point.
<b>Relative Humidity:</b>	Maximum 85%

**New or Rework:** Apply a liberal coat of WOOD GUARDIAN Penetrating Stain/Finish (Phenolic/Tung Oil) No. PP835. If the surface is highly porous, with the material striking in deeply, a second coat to fill the pores may be applied while the surface is still wet from the first coat. After the material has been on the surface several minutes, remove any puddles or material laying on the surface with squeegees or absorbent cloths. Buff with 00 steel wool when fully dry.

**Furniture:** Apply a liberal first coat, wipe off excess and allow to fully dry. Alternately rag on a thin coat of material (allow it to dry), then buff using finer and finer steel wool or sandpaper until desired appearance is achieved.

**Stain:** Apply a uniform penetrating coat of tinted product. Allow to dry thoroughly before varnishing.

## APPLICATION INFORMATION

**Application Equipment:** Apply with a high quality brush, roller, or by spray equipment.

**Airless Spray:** Minimum 28:1 Ratio Pump; .011"-.013" tip; 1800-2400 psi; 1/4" High Pressure material hose.

**Conventional Spray:** DeVilbiss MBC-510 gun; E tip; 704 Air Cap; 3/8" ID material hose; double regulated pressure tank with oil and moisture separator

Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

**Brushes:** Use china bristle or nylon/polyester brushes.

**Rollers:** Use polyester or lambswool roller covers.

**Miscellaneous:** Garden sprayer, lint free mops and cloths, etc.

**Thinning:** Thinning is not required under normal environmental and application conditions. If thinning is necessary, to stay within the 550 g/l VOC limit, thin sparingly with Porter Paint Thinner No. 5132 up to 2 ounces per gallon. Do not exceed local regulations.

**Clean-up:** Clean tools and spray equipment with Porter Paint Thinner No. 5132 immediately after use.

## SHIPPING

**Freight Classification:** PAINT OR PAINT RELATED MATERIAL

**Packaging:** 6 Quarts per carton; 4 Gallons per carton

**Shipping Weights:** 1.9 lb/qt (11.9 lb/carton); 7.3 lb/gal (30.4 lb/carton)

PPGAF believes the technical data presented is currently accurate; however, no guarantee of accuracy, comprehensiveness, or performance is given or implied. Improvements in coatings technology may cause future technical data to vary from what is in this bulletin. For complete, up-to-date technical information, visit our web site or call 1-800-441-9695.



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No. PP835 series  
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