



TECHNICAL NOTE

FOR ADDITIONAL INFORMATION: www.frtw.com or 1.800.TEC.WOOD (832.9663)

SPECIFICATIONS

CLEAR-GUARD™ Preservative Treated Wood

PART 1 - GENERAL PRODUCT INFORMATION:

CLEAR-GUARD™ wood preservative is used to treat lumber, timbers, laminated beams, plywood and other engineered wood products. Treatment with **CLEAR-GUARD™** provides protection from decay and insects for above ground applications. **CLEAR-GUARD™** is applied to wood products through vacuum pressure impregnation as described in the American Wood Protection Associations (AWPA) Standards, (latest edition).

PART 2 - PRODUCT DESCRIPTION AND INFORMATION:

CLEAR-GUARD™ is a colorless, solvent-based (low odor mineral spirits) preservative system containing Permethrin (insecticide) and IPBC (fungicide) which are active components in EPA-registered pesticides. The formulation requirements are described in the AWPA Standard P-58-10. IPBC and Permethrin have been used as a wood preservative for many years.

CLEAR-GUARD™ treated wood is effective against mildew, mold, decay organisms and various termites, including the Formosan Termite in above ground applications.

CLEAR-GUARD™ treated wood presents minimal health or environmental concerns and has a low mammalian toxicity.

CLEAR-GUARD™ treated wood removed from service is not hazardous waste.

PART 3 - TECHNICAL DATA AND SPECIFICATIONS:

Treatment Specifications - Pressure impregnation shall be in accordance with methods detailed by AWPA T1 Processing and Treatment Standard, as appropriate, latest version. The duration of treating time and the quantity of preservative retained shall depend on the species of wood being treated and/or its end use. Minimum industry recommendations for **CLEAR-GUARD™**- treated wood products applications are listed below:

Use Category	Service Conditions	Use Environment	Common Agents of Deterioration	Typical Applications	Retention
UC1 Interior Dry	Interior Construction Above Ground Dry	Continuously protected from weather or other sources of moisture	Insects Only	Interior Construction and furnishings	0.055 pcf
UC2 Interior Damp	Interior Construction Above Ground Damp	Protected from weather, but may be subject to sources of moisture	Decay fungi and insects	Interior construction	0.055 pcf
UC3A Above Ground Protected	Exterior Construction Above Ground Coated and Rapid Water Runoff	Exposed to weather, not exposed to prolonged wetting	Decay fungi and insects	Coated millwork, siding and trim	0.055 pcf
UC3B Above Ground Exposed	Exterior Construction Above Ground Uncoated or poor water run-off	Exposed to weather, including prolonged wetting	Decay fungi and insects	Decking, deck joist, railings, fence pickets, uncoated	0.055 pcf

NOTE - The recommended retentions will provide adequate insect and decay resistance for the Use Category applications. It is not necessary, or recommended that retentions be arbitrarily increased for any given application.

Freshly treated **CLEAR-GUARD™** will have an oily odor. The odor is from carrier solvent, low odor mineral spirits. **CLEAR-GUARD™** treated wood must be dry and odor free before using in Construction. Do not install in enclosed or interior areas until solvents have completely volatilized. After treatment and prior to installation or use, place treated material in well ventilated area or "open air" environment and stack so air circulates around each piece until dry and odor free. Do not allow vapors to collect in closed spaces (especially working or living areas) during the drying process. Avoid open flames and do not smoke around treated wood during the drying process. Avoid exposure to vapors from freshly treated wood.

PART 4 - ENGINEERED WOOD PRODUCTS:

CLEAR-GUARD™ treated engineered wood products may be used as beams, headers, post, columns and for many other structural applications. There are several advantages to treatment with **CLEAR-GUARD™** over water-borne treatments such as:

- No reduction of design values.
- No swelling or shrinkage, dimensions unchanged by treatment.
- Very little if any checking, cupping, or twisting.

CLEAR-GUARD™ treated engineered wood products shall not be used in any application where it will be in ground contact, submerged in water, or in marine applications.

PART 5 - CONSUMER INFORMATION:

The following precautions should be taken when handling treated wood and when determining where to use and how to dispose of waste wood:

- Wood treated with **CLEAR-GUARD™** should not be used where it will be in frequent or prolonged contact with bare skin unless an effective sealer has been applied. (Example: chairs and other outdoor furniture).
- **CLEAR-GUARD™** treated wood may be used for building components where two coats of an appropriate sealer are applied. Sealers may be applied at the installation site after wood has dried. See Part 7 Finishing below.
- Sawn ends, field trimming, and fabrications holes and or notching should be resealed with brush on wood preservative available at local home centers under various trade names.
- **CLEAR-GUARD™** treated wood shall not come in contact with bituminous or asphalt materials such as deck protective wrap, gaskets, felt, tar paper or similar items.
- For interiors of farm buildings where domestic animals or livestock will not crib (bite) or lick the wood.
- Do not use for beehive construction.
- Wood treated with **CLEAR-GUARD™** is not suitable for food garden uses. Do not use treated wood where the preservative may become a component of food or animal feed. Do not use for cutting boards or counter-tops Only treated wood that is visibly clean and free of surface residue should be used for patios, decks, and walkways.
- **CLEAR-GUARD™** treated wood should not be used where it may come in direct or indirect contact with public drinking water and drinking water for domestic animals or livestock.

Safety Data Sheets are available for **CLEAR-GUARD™** treated wood at www.frtw.com

PART 6 - FASTENERS:

Ordinary fasteners may be used with **CLEAR-GUARD™** treated wood in weather protected above ground applications. Corrosion resistant fasteners are required with **CLEAR-GUARD™** treated wood if a connection is made to water borne copper treated wood or if **CLEAR-GUARD™** members are located in severe deterioration zones. Stainless Steel fasteners may be required under wet conditions. Local building codes supersede above restrictions.

PART 7 - FINISHING:

CLEAR-GUARD™ treated wood may be painted, stained or sealed after air drying has evaporated the solvent as described above. Blistering, peeling or solvent bleeding may occur if not adequately dry. It is the user's responsibility to test the desired finishing system on sample material and exposure to actual use conditions to determine if the desired effect can be obtained. With exposure to the elements, unprotected treated wood will turn to a natural gray color.

PART 8 - HANDLING AND DISPOSAL OF TREATED WOOD:

- Avoid frequent or prolonged skin contact. When handling treated wood, wear long sleeved shirts and long pants and use appropriate industrial gloves.
- Avoid frequent or prolonged inhalation of sawdust from treated wood. When sawing and machining treated wood, wear a dust mask. Whenever possible, these operations should be performed outdoors to avoid indoor accumulations of airborne sawdust from treated wood.
- When cutting or machining, wear goggles to protect eyes from wood particles or chips.
- Wash hands thoroughly after handling, and before eating, drinking, or using tobacco products.
- Good personal hygiene should always be used.
- Launder any clothing which may become contaminated during handling, machining or sawing of the treated product. Work clothes should be washed separately from other household clothing.
- Dispose of treated wood by ordinary trash collection or burial. Treated wood shall not be burned in open fires, stove, fireplaces, or residential boilers because toxic chemicals may be produced as part of the smoke and ashes. Treated wood from commercial or industrial use (e.g. construction sites) may be burned only in commercial or industrial incinerators or boilers in accordance with state and federal regulations.