

# PERMAPOST PRODUCTS COMPANY

## *HI-Clear II™ Treated Wood*

### PART 1 - GENERAL PRODUCT INFORMATION

HI-Clear II™ is wood, pressure treated with IPBC and Permethrin wood preservatives. It provides fungicidal and insect protection for wood products in above ground uses. It is low in toxicity and can be installed with a high degree of safety.

### PART 2 - PRODUCT DESCRIPTION AND INFORMATION

This HI-Clear II preservative system has a long service record when used as a wood preservative. The preservatives are listed in the standards of the American Wood Protection Association (AWPA). The preservative IPBC is widely used in cosmetics, paints and wood protection. The preservative Permethrin is accepted by the World Health Organization and it is used for head lice control, clothing treatments, and wood protection.

HI-Clear II™ treated wood is intended for above ground use only and is effective against mildew, mold, insects and decay organisms.

HI-Clear II treated wood presents minimal health or environmental concerns and has a low mammalian toxicity. HI-Clear II treated wood removed from service is not a hazardous waste.

### PART 3 - TECHNICAL DATA AND SPECIFICATIONS

Treating Process - Vacuum/pressure treatment, which conforms with process specification in AWPA Use Category System Standards.

Treatment Specifications - Treating procedures shall be as specified in AWPA Standards. Preservatives shall be as specified in the AWPA Preservative Standards. Penetration and retention of preservatives shall conform to the specifications established for severe tropical decay and Formosan termite zones established by the City and County of Honolulu Hawaii for the AWPA Use Categories including UC3A and UC3B.

Minimum industry recommendations for HI-Clear II treated wood products applications are listed below:

Use Category	Service Conditions	Retention
UC3A Above Ground Protected	Exterior construction / above ground / coated and rapid water runoff	500/1000 PPM
UC3B Above Ground Exposed	Exterior construction / above ground / un-coated or poor water runoff	500/1000 PPM

NOTE - The retentions are based on scientific data review to provide adequate insect and decay resistance for the Use Category recommendations.

Where possible, all fabrication or machining should be performed prior to treatment. When fabrication or machining is done after treatment, additional preservative shall be applied in accordance with AWPA Standard M4, Standard for the Care of Preservative Treated Wood Products. Treated wood damaged in handling shall be field re-treated with 2 percent copper in copper naphthenate using an EPA registered product for that purpose. Freshly treated HI-Clear II may exhibit a noticeable odor. The odor is from the carrier solvent. See Part 5 Consumer Information and Part 8 Handling and Precautions for additional use/site precautions.

#### PART 4 - ENGINEERED WOOD PRODUCTS

HI-Clear II 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 HI-Clear II over waterborne treatments such as:

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

**Glulam and Columns shall not be used in any application where they will be submerged in water or in marine applications or where the in service equilibrium moisture content will exceed 16%. For more specific information consult the latest product information guides from glulam manufacturer.**

#### 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 HI-Clear II 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.
- Sawn ends, field trimming, and fabrications holes and or notching should be resealed with a 2% copper in copper naphthenate solution EPA registered for field treatment available at local home centers under various trade names. Two(2) percent zinc in zinc naphthenate also.
- HI-Clear II treated wood may be used in interior applications after all carrier solvent has evolved..
- HI-Clear II treated wood shall not come in contact with bituminous materials such as deck protective wrap, asphalt or tar / felt paper.
- For interiors of farm buildings where domestic animals or livestock will not crib (bite) or lick the wood, HI-Clear II treated wood may be used for building components where two coats of an recommended sealer are applied. Sealers must be applied at the installation site after drying.
- HI-Clear II treated wood may not be used for farrowing or brooding facilities or in the presence bees or hives.
- 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 or food boxes or bathing enclosures.
- Only treated wood that is visibly clean and free of surface residue should be used for patios, decks, and walkways.
- HI-Clear II 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, except for uses involving incidental contact such as docks and bridges.
- Do not burn treated wood in fireplaces or where people will be exposed to the smoke or ashes.

#### PART 6 - FASTENERS

Ordinary fasteners may be used with HI-Clear II treated wood in weather protected applications. Corrosion resistant fasteners are required with HI-Clear II treated wood if a connection is made to waterborne copper treated wood or if HI-Clear II members are located in severe deterioration zones. Stainless Steel fasteners may be required under wet conditions. Local building codes will always supersede above restrictions.

#### PART 7 - FINISHING

HI-Clear II above ground treated wood product may be finished or stained after thorough air drying has occurred. Oil based, stain blocking primer is required for all applications.

#### 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.

#### DISCLAIMER:

The information contained herein is true and accurate to the best of our knowledge. However, manufacturer gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption that purchaser will make his own tests to determine the quality and suitability of the product. Manufacturer expressly disclaims any and all property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling this product.