



# NW100<sup>®</sup>

PRESERVATIVE SYSTEM

## Product Information

The NW100<sup>®</sup> wood preservative is a waterborne, alkaline copper quaternary preservative system developed to provide long-term protection of wood exposed in exterior applications. The NW100 system is based on the well-established effectiveness of copper combined with an organic quaternary compound and is applied to wood by pressure treatment. NW100 pressure treated wood products are available for above ground, ground contact and fresh water contact applications for projects such as decks, fences and landscaping.

- ▶ NW100 pressure treated wood products are durable and designed for outdoor construction.
- ▶ NW100 pressure treated wood products can be used for interior and exterior uses. Exterior uses include above ground, ground contact, and fresh water contact. Applications include structural lumber, sill plates, patios, decks, garden edging, and landscaping structures.

Wood products properly pressure treated and processed with NW100 preservative are safe when used as recommended.

Wood products pressure treated with NW100 preservative begin with a familiar greenish colour and will over time turn to a light tan/brown colour after exposure to sunlight. As with most outdoor wood products, wood products pressure treated with NW100 preservative will eventually fade to grey over time.





## IMPORTANT APPLICATION INFORMATION

- **Protect cut ends, drill holes and other field cuts**
  - For NW100 treated timbers and treated wood used in **ground contact applications**, a brush-on end-cut wood preservative is required at the time of construction on all saw cuts, drill holes and other field cuts. Two applications of a copper naphthenate based end-cut preservative must be applied to the treated wood before it is installed. Important: follow the manufacturer's directions for proper application.

For NW100 treated wood used in **above ground applications**, such as deck boards, railing, post tops or fence boards, a brush-on end-cut wood preservative or Timber Specialties Cut-N-Seal® product should be applied to all saw cuts, drill holes and other field cuts at the time of construction. Follow the manufacturer's directions for proper application.

- **Use corrosion-resistant fasteners** – NW100 treated wood products are designed for long-term performance in outdoor applications and, therefore, require high quality corrosion-resistant nails, screws, and other fasteners and hardware. *Warning* – Certain metal products (including fasteners, hardware and flashing) may corrode when in direct contact with pressure treated wood products. To prevent premature corrosion and failure it is important to follow the recommendations of the manufacturers for all metal products.

For interior or exterior applications, use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use. As with any good design and construction practices, NW100 treated wood should not be used in applications where trapped moisture or water can occur. Where design and/or actual conditions allow for constant, repetitive, or long periods of wet conditions, only stainless steel fasteners should be used.

Fasteners (and other metal products) for use with NW100 treated wood products include:

- **Hot Dip Galvanized\*** – Fastener and hardware manufacturers have suggested the minimum Hot-Dip Galvanized requirements for use with treated wood should conform to the following ASTM Standards: ASTM-A153 (for Hot-Dip fastener products) and ASTM-A 653 (Coating Designation G-185 for Hot-Dip connector and sheet products).
- **Stainless steel fasteners and connectors** are recommended for use with treated wood in severe exterior applications such as swimming pools, salt water exposure, etc. Type 304 and 316 are the recommended grades to use.
- **Other fasteners and hardware as recommended by the manufacturer** – There may be additional products (other than stainless steel or hot-dip galvanized) which are suitable for use with NW100 treated wood. Please consult with the individual fastener or hardware manufacturer for recommendations for use of their products with NW100 treated wood.

*\* Electroplated galvanized fastener and metal products are typically not accepted by the building codes for use in exterior applications, regardless of the type of wood used.*

- **Aluminum should not be used in direct contact with NW100 treated wood** – Spacer materials or other physical barriers are recommended to prevent direct contact of NW100 treated wood and aluminum products. When using NW100 treated wood in close proximity to aluminum products, such as aluminum siding, flashing, furniture and door and window frames, a 1/4" minimum space must be allowed for between the NW100 treated wood and the aluminum products. Polyethylene or nylon spacers can be used to maintain the 1/4" spacing. Another option is to use a polyethylene barrier, with a minimum thickness of 10 mils, between the NW100 treated wood and the aluminum product to prevent direct contact of the wood and the aluminum.

- **Check appropriate usage on the end tag** – Above ground treated material should not be used in ground contact applications as this can adversely affect the performance of the entire project. The appropriate usage is noted on the end tag attached to each piece.
- **When appearance permits, attach boards bark side up** – As a general rule, attach boards bark side up (annual rings arc upward) to reduce cupping; however, the best face should be placed up when a defect of the wood is apparent. Fasten thin boards to thicker boards to maintain structural integrity.
- **Drill pilot holes** – Drill pilot holes especially when nailing or screwing near the edge or end of a board. Pilot holes will help minimize splitting.
- **Deck board spacing** – Should the wood become wet during construction, butt deck boards together. As drying occurs, some shrinkage can be expected. If the wood is dry, allowing for shrinkage is not necessary.
- **Apply a weather-resistant finish** – Any exposed wood, pressure treated or not, should be protected from the weather. Application of a quality clear water repellent or semi-transparent stain, which contains water repellent, will help minimize the cycles of moisture take-up and loss the wood goes through outdoors. First, thoroughly clean your project with a deck cleaning product. Clear water repellent can be immediately applied to your deck or other project. If you choose to use a semi-transparent stain which contains a water repellent, you need to first check that your project is surface dry. Either wait until the surface is dry or immediately apply clear water repellent and wait approximately 8 weeks and then apply your chosen colour of semi-transparent stain. Check that the wood is surface dry before applying stain. In all instances follow the manufacturer's directions when applying water repellents or semi-transparent stains which may contain water repellent.

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NW100® pressure treated wood products are pressure treated with Alkaline Copper Quaternary compounds. The main active ingredients are copper and quaternary compounds. Copper has long been known to be an effective wood preservative. Copper and quaternary compounds together provide a broad spectrum of long-term protection for wood exposed in exterior applications.

## IMPORTANT INFORMATION

- Do not burn treated wood.
- Wear a dust mask and goggles when cutting or sanding wood.
- Wear gloves when working with wood.
- Some preservative may migrate from the treated wood into soil/water or may dislodge from the treated wood surface upon contact with skin. Wash exposed skin areas thoroughly.
- All sawdust and construction debris should be cleaned up and disposed of after construction.
- Wash work clothes separately from other household clothing before reuse.
- Treated wood should not be used where it may come into direct or indirect contact with drinking water, except for uses involving incidental contact such as fresh water docks and bridges.
- Do not use treated wood under circumstances where the preservative may become a component of food, animal feed, or beehives.
- Do not use treated wood as mulch.
- Only treated wood that is visibly clean and free of surface residue should be used.
- If the wood is to be used in an interior application and becomes wet during construction, it should be allowed to dry before being covered or enclosed.
- Residential users may dispose of treated wood scraps and cut offs by ordinary trash collection or burial. Commercial and industrial users should dispose of treated wood scraps and cut in accordance with federal, provincial, and local regulations.
- Projects should be designed and installed in accordance with federal, provincial, and local building codes and ordinances governing construction in your area.
- Mold growth can and does occur on the surface of many products, including untreated and treated wood, during prolonged surface exposure to excessive moisture conditions. To remove mold from the treated wood surface, wood should be allowed to dry. Typically, mild soap and water can be used to remove remaining surface mold.
- For more information visit [www.NW100.ca](http://www.NW100.ca) or email [info@NW100.ca](mailto:info@NW100.ca).

# Fastener and Hardware Information

**Warning** – Certain metal products (including fasteners, hardware and flashing) may corrode when in direct contact with NW100 pressure treated wood products. To prevent premature corrosion and failure it is important to follow the recommendations of the manufacturers for all metal products.

NW100 treated wood products are designed for long-term performance in outdoor applications and, therefore, require high-quality corrosion-resistant nails, screws, fasteners and other hardware.

- **For interior and exterior applications**

Use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use. As with any good design and construction practices, NW100 treated wood should not be used in applications where trapped moisture or water can occur. Where design and/or actual conditions allow for constant, repetitive, or long periods of wet conditions, only stainless steel fasteners should be used.

Fasteners (and other metal products) for use with NW100 treated wood products include:

- **Hot-Dip Galvanized\***

Fastener and hardware manufacturers have suggested the minimum Hot-Dip Galvanized requirements for use with treated wood should conform to the following ASTM Standards: ASTM-A153 (for Hot-Dip fastener products) and ASTM-A 653 (Coating Designation G-185 for Hot-Dip connector and sheet products).

- **Stainless steel**

Stainless steel fasteners and connectors are required for Permanent Wood Foundations below grade and are recommended for use with treated wood in other severe exterior applications such as swimming pools, salt water exposure, etc. Type 304 and 316 are the recommended grades to use.

- **Other fasteners and hardware as recommended by the manufacturer**

There may be additional products (other than stainless steel or hot-dip galvanized) which are suitable for use with NW100 pressure treated wood. Please consult with the individual fastener or hardware manufacturer for recommendations for use of their products with NW100 treated wood.

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- **Aluminum should not be used in direct contact with NW100 treated wood**

Spacer materials or other physical barriers are recommended to prevent direct contact of NW100 pressure treated wood and aluminum products. When using NW100 treated wood in close proximity to aluminum products, such as aluminum siding, flashing, furniture, and door and window frames, a 1/4" minimum spacing must be allowed for between the NW100 treated wood and the aluminum products. Polyethylene or nylon spacers can be used to maintain the 1/4" spacing. Another option is to use a polyethylene barrier, with a minimum thickness of 10 mils, between the NW100 treated wood and the aluminum product to prevent direct contact of the wood and the aluminum.

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