



1. Product Name
NatureWood® Preserved Wood

2. Manufacturer
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3. Product Description

BASIC USE

NatureWood® preserved wood is a product offered as an alternative to traditional chromated copper arsenate (CCA-C) pressure treated wood. NatureWood preserved wood products provide retailers, treaters, consumers, builders and architects an option in their selection of pressure treated wood products.

The preservative technology in NatureWood products has been commercially used since 1991 throughout Europe, Asia, and the United States. For many backyard and commercial projects, such as decks, fences and landscaping, NatureWood products are an ideal alternative to traditional pressure treated wood for these reasons:

- NatureWood products are durable and designed for outdoor construction
- The most effective and widely used alternative to traditional pressure treated wood
- Lifetime residential and agricultural limited warranty against structural damage caused by decay and termites
- Ideal for structural lumber, sill plates, outdoor furniture, playground products, patios, decks, garden edging and landscaping structures
- Building code compliant
- Copper based preservative with a co-biocide
- The preservatives in NatureWood products meet AWWPA standards

COMPOSITION & MATERIALS

The NatureWood wood preservative is a

waterborne, alkaline copper quaternary preservative system developed to provide protection of wood exposed in exterior applications. The NatureWood system is based on the well-established effectiveness of copper combined with an organic quaternary compound and is applied to wood by pressure treatment. Copper and quaternary compounds are effective fungicides and termiticides. Together they provide protection from a broad spectrum of fungi and termites. Quaternary compounds are commonly used as swimming pool additives, disinfectants and sanitizers and have anti-bacterial properties. The active ingredients in NatureWood, copper oxide and quaternary compounds, are dissolved in an alkaline carrier.

Depending on the desired product application, wood species and exposure hazard, the NatureWood preservative system may be formulated with a number of specialty additives, such as water repellents, to enhance product performance.

NW100 preservative is used to treat sapwood species and NW200 preservative is used to treat heartwood species.

COLORS

Freshly treated NatureWood products begin with a greenish color and will, over time, turn to a light tan/brown color after exposure to sunlight. As with most outdoor wood products, NatureWood products will eventually fade to gray over time.

LIMITATIONS

NatureWood Copper Quat preservatives are used to pressure treat the following materials:

- Dimensional lumber and timbers of the following sapwood species - Southern Pine, Ponderosa Pine, Red Pine, Radiata Pine and Caribbean Pine
- Dimensional lumber and timbers of the following heartwood species - Douglas Fir, Western Hemlock, Hem-Fir, Lodgepole Pine, Jack Pine and Redwood
- Maximum nominal size of 5/4" x 6" in all listed species for decking use only
- Southern Pine and Douglas Fir plywood
- Round and sawn posts and building poles of Southern Pine, Ponderosa Pine, Red Pine, Douglas Fir, Hem-Fir and Western Hemlock (NW200 preservative treatment)

Minimum preservative retention levels are provided in NER-628.

NatureWood preserved wood products are designed for long-term performance in outdoor



NatureWood® products are designed for outdoor construction.

applications and, therefore, require high quality corrosion resistant nails, screws and other fasteners. Use hot dip galvanized, stainless steel or other fasteners and hardware as recommended by the hardware manufacturer.

Direct contact of NatureWood preserved wood with aluminum is not recommended and should be avoided. When using NatureWood preserved wood in close proximity to aluminum products such as aluminum siding, flashing and door and window frames, a 1/4" (6.4 mm) minimum space must be allowed for between the NatureWood and the aluminum products. Polyethylene or nylon spacers can be used to maintain the 1/4" (6.4 mm) spacing. Another option is to use a polyethylene barrier, with a minimum 10 (0.25 mm) mil thickness, between the NatureWood preserved wood and the aluminum product to prevent direct contact of the wood and the aluminum.

NatureWood products are not currently approved for saltwater immersion applications.

4. Technical Data

APPLICABLE STANDARDS

- American Wood-Preservers' Association (AWPA)
- AWWPA Analytical Standards A2-98, A3-00, A9-00, A-16-93, A17-97, A18-99
 - AWWPA Commodity Standards C1-00, C2-00, C4-99 (applies only to NW200 preservative treatment), C5-00, C9-00, C15-00, C17-00, C22-00
 - AWWPA Preservative Standard P5-01

National Evaluation Service, Inc. (NES) - National Evaluation Report (NER) - Report No. NER-628



NatureWood® products look excellent in any backyard or garden.

APPROVALS

NatureWood products, as described in National Evaluation Report - NER #628, meet all major model building code requirements.

The preservative technology in NatureWood products is registered by EPA as a nonrestricted use pesticide and does not require Proposition 65 labeling in California.

ENVIRONMENTAL CONSIDERATIONS

This preservative is registered with the Environmental Protection Agency (EPA) and meets the requirements of American Wood-Preservers' Association Standard P5.

PHYSICAL/CHEMICAL PROPERTIES

Test reports and additional product information on NatureWood products are available from OsmoSe, Inc., upon request.

NatureWood treated products should carry the following information:

1. Name of wood treating company
2. Treatment plant city and state
3. Symbol "Copper Quat" (copper quaternary)
4. Preservative retention level
5. Approved use
6. NER number

PREPARATORY WORK

Handle and store product according to OsmoSe, Inc., recommendations. Allow materials exposed to incidental moisture to dry thoroughly prior to covering with vapor- or moisture-retarding finish materials.

METHODS

NatureWood products are easy to handle

and workable with common tools. Complete installation recommendations are available from the manufacturer.

Certain adhesives add extra holding power. Apply adhesives in accordance with manufacturer's directions.

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 especially when nailing or screwing near the edge or end of a board. Pilot holes will help minimize splitting.

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.

Brush end coat wood preservative is recommended on all saw cuts and into drill holes during construction of wood projects. Also apply on areas where moisture can collect. Always follow manufacturer's recommendations.

Application of a quality clear water repellent or semitransparent stain which contains water repellent will help minimize the cycles of moisture take-up and loss the wood goes through outdoors.

First, determine if the NatureWood product has been pressure treated with a factory applied water repellent by looking at the end tag. If not factory water repellent treated, thoroughly clean the project with a deck cleaning product. Clear water repellent can be immediately applied to deck or other project. If semitransparent stain which contains a water repellent is desired, first check that project surface is dry. Either wait until the surface is dry, or immediately apply clear water repellent and wait approximately 8 weeks, and then apply chosen color of semitransparent stain.

If the NatureWood products contain a factory water repellent, an oil stain can be applied in 30 - 60 days and water based stains can be applied after 6 months. Check that the wood surface is dry before applying stain. In all instances, follow the manufacturer's directions when applying water repellents or semitransparent stains, some of which may contain water repellent.

PRECAUTIONS

NatureWood Handling and Use Recommendations

- Surfaces must be clean and dry before

application

- Wear a dust mask and goggles when cutting or handling wood
- Wear gloves when working with wood
- All sawdust and construction debris should be cleaned up and disposed of after construction
- After working with the wood, wash exposed skin areas thoroughly
- Wash work clothes separately from other household clothing before reuse
- Preserved 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 preserved wood under circumstances where the preservative may become a component of food, animal feed or beehives
- Do not use preserved wood for mulch
- Only preserved wood that is visibly clean and free of surface residue should be used for patios, decks and walkways
- Do not burn preserved wood on the jobsite. Preserved wood may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with state and federal regulations

BUILDING CODES

Properly processed NatureWood products meet the requirements of most applicable building codes. Current data on building code requirements and product compliance may be obtained from OsmoSe, Inc., technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. Availability & Cost

AVAILABILITY

Contact manufacturer for information on local firms which apply the NatureWood treatment.

COST

Budget installed cost information may be obtained from a NatureWood pressure treatment firm or through a retail distributor of NatureWood products.

7. Warranty

A Lifetime Residential and Agricultural Limited Warranty is offered on NatureWood products at 0.15, 0.25 and 0.40 pcf retention levels for material used in residential and agricultural applications. See Warranty for specific provisions. An independent third-party quality control agency is required for the use of the

NatureWood trademark and NatureWood Lifetime Residential and Agricultural Limited Warranty.

8. Maintenance

There are no specific maintenance requirements for NatureWood treated materials, except the periodic inspection and application of a water repellent or stain as described in the Methods section. Periodic building inspection by a qualified individual to ensure sound material may be advisable in high risk service environments.

9. Technical Services

A staff of trained service personnel offers design assistance and technical support. For technical assistance, contact Osrose, Inc., Wood Preserving Division.

10. Filing Systems

- First Source™
- MANU-SPEC™
- Additional product information is available from the manufacturer upon request.