

## IMPORTANT APPLICATION INFORMATION

- Fasteners - MicroPro® technology offers many benefits including significantly improved corrosion performance. LifeWood® brand pressure treated wood with MicroPro technology exhibit corrosion rates on metal products similar to CCA pressure treated wood and untreated wood. 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, MicroPro 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 LifeWood preserved wood products include:*

### - Stainless Steel

Stainless steel fasteners and connectors 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 LifeWood treated wood. Please consult with the individual fastener or hardware manufacturer for recommendations for use of their products with LifeWood treated wood.

- Above ground treated material should not be used in ground contact applications as this can adversely affect the performance of the entire project. In addition, no treated materials that have been end cut or trimmed should be used in ground contact applications. The appropriate usage is noted on the ink stamp and/or 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.
- Use an endcoat preservative - Brush-on endcoat 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. Follow manufacturer's recommendations.
- 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, determine if your LifeWood 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 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 color of semi-transparent stain. If the LifeWood products contain a factory water repellent, an oil based stain can be applied in 30 - 60 days and water based stains can be applied after 6 months. 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.

## IMPORTANT INFORMATION

- LifeWood brand pressure treated wood has corrosion rates on metal products similar to untreated wood. Use fasteners and hardware that are in compliance with the manufacturer's recommendations and the building codes for their intended use. When using aluminum products in conjunction with LifeWood brand treated wood, refer to the MicroPro Fastener and Hardware Information Sheet for additional information.
- Do not burn preserved 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.
- 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 as mulch.
- Only preserved 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.
- Disposal Recommendations - Preserved wood may be disposed of in landfills or burned in commercial or industrial incinerators or boilers in accordance with federal, state, and local regulations.
- If you desire to apply a paint, stain, clear water repellent, or other finish to your preservative treated wood, we recommend following the manufacturer's instructions and label of the finishing product. Before you start, we recommend you apply the finishing product to a small exposed test area before completing the entire project to insure it provides the intended result before proceeding.
- Projects should be designed and installed in accordance with federal, state, and local building codes and ordinances governing construction in your area and in accordance with the National Design Specifications (NDS) and the Wood Handbook.
- 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.epa.gov](http://www.epa.gov).

# THE MICROPRO®/LIFEWOOD® RESIDENTIAL & AGRICULTURAL LIMITED WARRANTY



# LifeWood®

**For more information call 800-585-5161, or visit [www.kopperspc.com](http://www.kopperspc.com).**

MicroPro/LifeWood products are treated with Micronized Copper Azole. MicroPro/LifeWood products are produced by independently owned and operated wood preserving facilities. MicroPro, and LifeWood, are registered trademarks of Koppers Performance Chemicals Inc. © 10/2014



## THE MICROPRO®/LIFEWOOD® RESIDENTIAL & AGRICULTURAL LIMITED WARRANTY

Original consumer purchasers or “first-owners” of specific LifeWood® brand wood products are eligible for this LIMITED WARRANTY. Subject to all of the terms and conditions of this warranty, Koppers Performance Chemicals, Inc. (KoppersPC) will, in KoppersPC’s sole discretion, replace (product only) or refund the original purchase price of LifeWood brand wood products produced by a licensed independently owned and operated treating facility used in, or in conjunction with, residential or agricultural applications that “structurally fail”\* in service due to rot, fungal decay, or termite attack during the warranty term.

### “FIRST-OWNER” COVERAGE

To qualify for the LifeWood NONTRANSFERABLE RESIDENTIAL & AGRICULTURAL LIMITED WARRANTY, you must be the owner-of-record of the property at the time LifeWood brand wood products were installed, or if the LifeWood brand wood products were installed by a builder-contractor-owner, “first-owner” means the owner-of-record first acquiring the property from the builder-contractor-owner. The LifeWood warranty is not transferable from the first-owner to subsequent owners of the property.

### TO IDENTIFY A LIFEWOOD BRAND WOOD PRODUCT, LOOK FOR THE LIFEWOOD END TAG OR INK STAMP

It’s easy to identify warranted LifeWood brand wood products. Simply look for the plastic end tag or ink stamp on each piece of LifeWood brand wood. Make sure you receive and retain all LifeWood end tags, as well as the original purchase receipt(s) from your lumber dealer or contractor/builder. In the event of a claim, it will be necessary to present this documentation for all materials claimed.



LifeWood end tag example

### WHAT THE WARRANTY COVERS

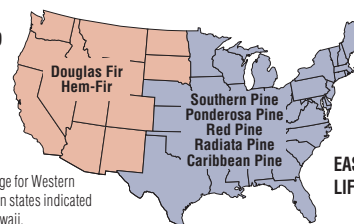
The LifeWood Limited Warranty covers only LifeWood brand wood products from the date of purchase by the first-owner against structural failure caused by fungal decay or termites. \*For purposes of this warranty, structural failure is defined as the inability of a given member to perform its intended function due to rot, fungal decay, or termite attack. The terms “rot” and “fungal decay,” as used in this warranty, mean attack by wood destroying fungi that disintegrate the wood cell walls, but exclude surface mold, mildew, and/or fungi associated with the “weathering” of wood. “Weathering” of wood is not decay, fungal decay, or rot of any type or definition. The obligation of KoppersPC under the terms of this warranty, in KoppersPC’s sole discretion, is limited to replacement or refund up to the original purchase price of LifeWood brand wood products.

### Terms of Warranty—LifeWood brand treated wood products:

A Lifetime Limited Warranty for LifeWood brand products treated with Micronized Copper Azole Compounds for above ground (treated to minimum 0.06 pcf preservative retention level) used in above ground residential or agricultural applications and ground contact treated lumber, timber, and plywood products (treated to minimum 0.15 pcf preservative retention level) used in residential or agricultural applications. Pressure treated wood products are deemed to be used in Above Ground Use when used in an above ground application where the treated wood product is not in contact with soil, or placed

on/over soil using a synthetic barrier or plastic material, or is continually exposed to heavy vegetation, mulch products, fill dirt, or other conditions that could simulate a ground contact exposure. Some regional and local building code authorities may have policies requiring pressure treated wood products used in “close proximity” to the ground be treated for “Ground Contact Use”. Important: Check with your state’s adopted building code and your local building code authorities to determine if the treated wood product you purchase for your specific application (or location) should be manufactured for “Above Ground Use” or “Ground Contact Use”. Pressure treated wood products are deemed to be used in Ground Contact Use when used in, or in contact with, the ground, soil, or fresh water immersion.

### WESTERN HEARTWOOD LIFEWOOD SPECIES\*\*\*



\*\*\*LifeWood® warranty coverage for Western species is limited to the Western states indicated including Alaska, excluding Hawaii.

### EASTERN SAPWOOD LIFEWOOD SPECIES

### WARRANTY EXCLUSIONS

KoppersPC is not responsible for any damage to LifeWood brand wood products used in commercial or industrial structures, wood foundation systems, wood exposed to salt water, or any cause other than rot, fungal decay, or termite damage. This warranty does not cover building poles or building timbers in structural applications, commercial vineyard stakes, lattice, peeler core landscape timbers, specialty items, such as spindles, ball tops, lattice and railing or any other products that have been milled after treatment.

KoppersPC is not responsible for any application of LifeWood brand wood products other than that specified under the appropriate usage as noted on the ink stamp and/or end tag attached to the piece.

KoppersPC is not responsible for projects or structures containing LifeWood brand products that have been used in improper end use application conditions. Example: KoppersPC is not responsible for projects or structures where any LifeWood brand products treated for above ground use were used in ground contact use applications. The appropriate usage is noted on the ink stamp and/or end tag attached to the piece.

KoppersPC is not responsible for projects or structures containing LifeWood brand products where some or all of the product has been used in contact with untreated or treated material that has been used in an improper end use application condition. Example: When above ground treated material has been misused in a ground contact application, this can adversely affect the performance of the entire project, and this situation would expose properly treated material to an exposure condition that would simulate ground contact conditions.

KoppersPC is not responsible for damage to LifeWood brand wood products where the wood has been end-cut or trimmed and used in contact with the ground.

KoppersPC is not responsible for damage to LifeWood brand wood products where the wood has been sawn lengthwise or surfaced.

KoppersPC is not responsible for damage to LifeWood brand wood products caused by the “weathering” of wood, including but not limited to raised grain, splitting, checking, twisting, warping, shrinkage, swelling, or any other physical property of the wood. KoppersPC is not responsible for any costs associated with removal of damaged wood product(s) or delivery or installation of the replacement LifeWood brand wood product(s.)

KoppersPC is not responsible for any incidental or consequential damages claimed to be a result of damaged or undamaged LifeWood brand wood products.

KoppersPC is not responsible for corrosion of fasteners, hardware, or any other material(s), or any damage resulting from such an occurrence.

KoppersPC is not responsible for delamination of LifeWood brand plywood or other laminated wood products.

KoppersPC is not responsible for mold growth on LifeWood products.

For the warranty to be valid, a brush on endcoat wood preservative is required at the time of construction on all saw cuts and drill holes for Douglas-Fir and Hem-Fir treated wood products. Recommended endcoat wood preservatives include copper naphthenate, oxine copper, or zinc naphthenate products. **Important: Follow the manufacturer’s directions for proper application.**

### HOW TO MAKE CLAIMS

To make a claim under the terms of this warranty, send a photograph and description of the damage along with the LifeWood treated wood product purchase receipt(s) from your lumber dealer or contractor/builder. In addition KoppersPC requires an itemized list of the damage to all LifeWood products and an end tag from each piece of damaged treated wood. Send this information to: **KOPPERS PERFORMANCE CHEMICALS, INC. • ATTN: CONSUMER AFFAIRS P. O. DRAWER 0 • GRIFFIN, GEORGIA 30224-0249**

KoppersPC will, within sixty (60) days from the date of notice of your claim, and upon receipt of the proper documentation, make arrangements to exchange the damaged wood product(s) for the new LifeWood brand wood products. KoppersPC reserves the right to have a representative inspect all wood which is claimed to be damaged prior to its removal from services.

**NOTE: The only obligation of KoppersPC under the terms of this Warranty is limited to replacement of damaged lumber or the monetary equivalent of the failed LifeWood product up to the original purchase price at the sole discretion of KoppersPC. KoppersPC makes no other warranties, express or implied, of merchantability, fitness for a particular purpose, or otherwise. In no event shall KoppersPC be liable for incidental, consequential, special, or indirect damages. Nothing in this warranty shall affect the duration of implied warranties beyond their customary duration, or create additional implied warranties.**

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

*This warranty is valid only in the United States.*