

WAX IN

WATER OUT

**THE PERFECT
UMBRELLA FOR
HARDWOOD
FLOORS**

PROLAM

Driven by Innovation



WAXIN

PROLAM PROTECTS YOUR HARDWOOD FLOORS BETTER THAN EVER!

Prolam set the industry standard for quality and durability with its Zig-Zag technology and P-u-R solution for hardwood floors. Now, the industry leader is introducing another remarkable innovation—**WAXIN**.

Due to temperature fluctuations, heat exposure from the sun, and moisture penetration caused by the rain, the rear part of hardwood floors deteriorates over time. Constant variation among these factors leads to changes in the structure of the wood and speeds up its deterioration.

With **WAXIN** treatment, hardwood floors are protected against outside conditions.

INGENUITY

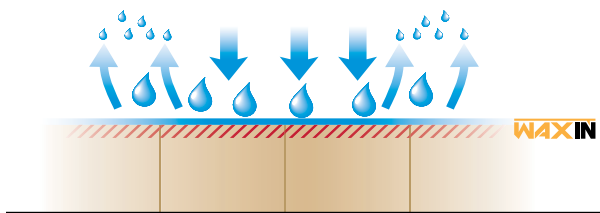
WAXIN protects hardwood floors and reduces weathering effects, thus considerably slowing the wood's natural deterioration by limiting the impact of fluctuating moisture levels caused by outside conditions.

Prolam developed this cutting-edge technology that penetrates the surface of the hardwood with solid paraffin wax, creating a virtually waterproof barrier of protection. In this process, the hardwood is heated to expand its fibers, allowing the wax to penetrate the surface (0.060 to 0.120 inches deep). When the mix cools, the paraffin hardens and coats the wood fibers.

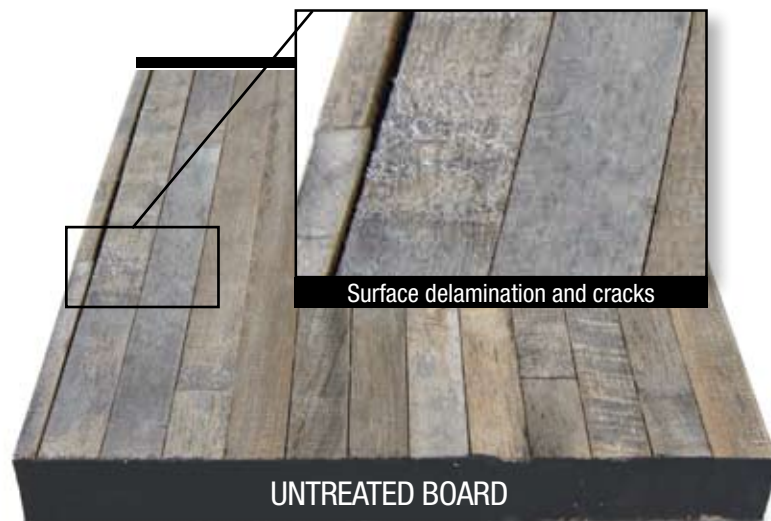
WAXIN is generally applied to the area of the floor most exposed and vulnerable to inclement weather, specifically the first 8 feet from the rear door.

EFFECTIVENESS

Prolam tested the effectiveness of **WAXIN** by exposing two wood panels to outdoor conditions for one full year. The photos below show one untreated panel and one protected by **WAXIN**.



With WAXIN, water evaporates before it can penetrate the wood.



BENEFITS

WAXIN penetrates the wood and does not deteriorate. Conventional floor protection, such as varnish and polyurethane, are only top coats; they eventually break down due to forklift traffic and pallets being moved across the floor.

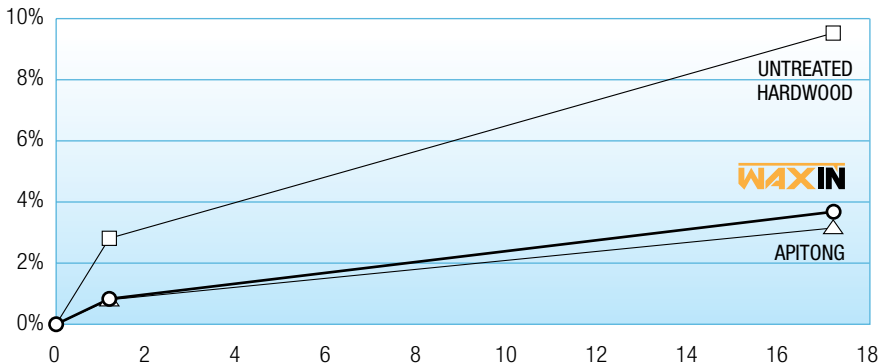
WAXIN remains solid and adheres to the wood fibers. Oil-based floor protection products are liquid and will progressively disperse over time, losing their effectiveness.

WAXIN is more durable than any other type of moisture protection for hardwood floors. Its effectiveness and water resistance continue even as the surface of the floor is worn.

WAXIN drastically reduces swelling in wood weight and volume due to weather conditions (by as much as 80%). With WAXIN, water evaporates before it can penetrate the wood.

WAXIN creates a virtually waterproof barrier of protection for hardwood floors, making domestic North American hardwood similar to tropical woods like apitong, a very tough wood that has a natural resistance to outside conditions. To prove it, a WAXIN-treated hardwood panel, an apitong flatbed floor panel and an untreated hardwood floor panel were submerged in water for 17 hours. The result? The WAXIN-treated panel was nearly as water resistant as the apitong panel and at least three times more than the untreated panel.

WEIGHT INCREASE OF SUBMERGED WOOD AFTER 17 HOURS (percentage)



The graph above illustrates WAXIN's water resistance as compared to apitong and untreated hardwood. The WAXIN treatment closely matches the renowned natural resistance of apitong wood.

** Results may vary with test conditions and materials used.*

WAXIN-TREATED FLOORS REPEL WATER EVEN AS THE FLOOR SURFACE THINS AS SHOWN



0.020 INCH PLANED



0.040 INCH PLANED



0.060 INCH PLANED



WATER RESISTANCE

WAXIN not only makes wood highly water resistant, its long-lasting protection preserves the wood's effectiveness, even as the floor surface thins due to normal wear.

The photos above show a WAXIN-treated panel, with each subsequent image showing the same panel with increasingly thicker strips of its surface planed off. Even when the thickness of the WAXIN-treated surface is reduced, WAXIN continues to protect the wood against water penetration; water still beads on the wood.

UNTREATED BOARD



All photos taken 10 minutes after water exposure.

PROLAM

CONSTANTLY INNOVATING TO BUILD THE BEST HARDWOOD FLOORS FOR THE TRANSPORTATION INDUSTRY



Zig Zag TECHNOLOGY

Prolam uses an innovative assembly technique that relies on its exclusive Zig-Zag joints. Thanks to their remarkable design, Prolam floors are more resistant to wear and tear and forklift traffic, making them simply the best in the industry.



P·u·R SOLUTION

Prolam has developed a new, hot-melt polyurethane reactive (PuR) coating for the underside of hardwood floors. P·u·R offers superior moisture resistance from water spray, especially from wheels.



WAXIN

WAXIN sets the new benchmark in hardwood floor protection. This ingenious process allows paraffin wax to penetrate the wood surface and adhere to its fibers, creating a virtually waterproof barrier of protection against climate fluctuations.

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