

How to Protect Wood from Humidity?

Protect wood against moisture is essential to preserve its durability, appearance, and structural integrity over time. This becomes especially important in humid climates or outdoor settings, where constant exposure can accelerate damage. At Pacific Forest, we offer effective solutions—from naturally resistant wood species to specialized products—that ensure long-lasting protection.

Choice of Wood

Wood species such as teak, cumaru, and garapa are naturally resistant to moisture due to their physical and chemical properties.

Teak

- Density: 650-750 kg/m³
- Durability: High (Class 1 according to EN 350-2)
- Properties: High natural oil content that repels water.

Cumaru

- Density: 1050 kg/m³
- Durability: Very high (Class 1 according to EN 350-2)
- Properties: Extremely dense wood with natural resistance to decay.

Garapa

- Density: 800-850 kg/m³
- Durability: High (Class 2 according to EN 350-2)

- Properties: Good water resistance with proper treatment.

Recommended products to protect wood against moisture

For additional protection, we recommend using oils and sealers such as those available at Nuprotec.

Osmo Decking Oil

- Protection: Against moisture and wear.
- Application:
 - Step 1: Clean and sand the surface.
 - Step 2: Apply a thin coat with a brush or roller.
 - Step 3: Allow to penetrate and dry according to the instructions.

Osmo UV-Protection Oil

- Protection: Against UV rays and discoloration.
- Application:
 - Step 1: Apply a thin coat and let dry for 12 hours.
 - Step 2: Apply a second coat for greater protection.

Product Performance and Quantity Needed

- **Osmo Decking Oil:** Approximate coverage of 24 m² per

liter with one coat. To protect 50 m² of wood, about 3 liters would be needed for the first coat.

- **Osmo UV-Protection Oil:** Approximate coverage of 18 m² per liter with one coat. To protect 50 m² of wood, about 3 liters would be needed for the first coat and 3 liters for the second coat.

Usage Examples

- **Decking and Terraces:** The combination of teak and Osmo Decking Oil provides robust protection against moisture, extending the life of the deck.
- **Garden Furniture:** Cumaru treated with Osmo oil withstands wear and decay in humid environments.

Application Instructions

Surface Preparation:

- **Cleaning:** Ensure the wood is clean and dry before applying any product. Use an appropriate wood cleaner to remove dirt and debris.
- **Sanding:** Lightly sand the surface with fine sandpaper (180-240) to open the wood pores and improve oil absorption.

Application instructions to protect wood against moisture

Oil Application:

- **Osmo Decking Oil:**
 - Step 1: Apply a thin, even coat with a brush or roller.

- Step 2: Allow the oil to penetrate for 10-15 minutes, then remove excess with a clean, dry cloth.
- Step 3: Allow to dry for 12 hours and apply a second coat following the same steps.

- **Osmo UV-Protection Oil:**

- Step 1: Apply a thin, even coat with a soft-bristle brush.
- Step 2: Allow the product to dry for 12 hours.
- Step 3: For additional protection, apply a second coat after 24 hours.