

# Preservation Solutions



Innovators of Environmentally Safe Products for Wood and Leather

## PENTACRYL™ *The Green Wood Stabilizer*

Pentacryl™ is a non-toxic compound of modified polymers designed to prevent the cracking and splitting of green wood during the drying process. It displaces the water and leaves a thin coating on the wood cell walls, which prevents the cells from collapsing and shrinking as the wood dries. It does not contain silicone, wax or mineral oil. There are no harmful fumes or foul odors.

Wood treated with Pentacryl™ can be sanded, stained, glued and/or sealed. It contains a UV protectant to help prevent sun fading and graying. If Pentacryl™ will be used on wood intended for outdoor use, a sealer must be applied once the wood has dried, to prevent the Pentacryl™ from leaching out over time.

**Coverage:** Use the Wood Calculator on our website to determine how much Pentacryl™ is needed to treat your wood: [www.preservation-solutions.com/woodcalc.php](http://www.preservation-solutions.com/woodcalc.php) Simply put in the dimensions and type of wood. This will provide you with a good estimate on how much should be applied to saturate the wood, especially when using the brushing method.

**Directions:** Use Pentacryl™ at room temperature and do not dilute. Pentacryl™ works best on green or freshly cut wood with a high moisture content. If the surface of the wood has dried out, it can be wet down lightly with water and wrapped in a wet towel for a few hours prior to treating with Pentacryl™. Safety glasses should be worn to prevent the Pentacryl™ from splashing in and irritating your eyes. Read the directions completely. Clean up with soap and water.

There are two methods used to apply Pentacryl™, *soaking* and *brushing* on.

**Method 1 (Soaking):** Soaking the wood, if possible, is the most effective. Fill a plastic or fiberglass container with enough Pentacryl™ to cover the wood. Do not use a metal container as it may react with the Pentacryl™ and discolor the wood. Apply small stickers under your wood so that the wood does not sit directly on the bottom of the soak tank. Soak the wood 12–24 hours per inch of thickness. For larger pieces such as carving blocks, turning blanks, or cross-cut sections, soak 24–36 hours per inch of thickness. It will not harm the wood to soak it longer.

For longer pieces of wood, such as logs, one end can be submerged in a bucket and the Pentacryl™ will “wick up” into the wood. After several days, turn the wood over and “wick up” the other end. When the wood is completely saturated, remove it from the soak, drip dry the wood and proceed to drying.

**Method 2 (Brushing):** This method is ideal for wood that is too large to soak. Lay plastic or a tarp down under the wood to catch any drips (allow enough plastic to wrap up over the top of the wood). Place small stickers under the wood so that it does not sit directly on the plastic. Brush on repeated coats of Pentacryl™ to all sides of the wood applying extra coats to the end grains where up to 75% of the Pentacryl™ will be absorbed. Cover the wood with the plastic to prevent premature drying. Repeat the process until the wood will no longer accept any more Pentacryl™ (it will lay on the surface). Keep the wood wrapped up in plastic in between brushing applications. Try to complete the application within 7-8 days to prevent mold from growing under the plastic. When the wood is completely saturated, drip dry and proceed to drying.

**Drying:** Remove the plastic to dry. Even though Pentacryl™ will speed the drying time by 30%, because it displaces the water, it is important to dry the wood SLOWLY and naturally. Place the wood away from direct air movement, heat source and sunlight. Ideal drying conditions are 50-70°F with relative humidity at 30-60%.

Drying time will vary depending on the type (density) and size of the wood, the relative humidity and temperature in your area. Stand slabs or cross-cut pieces on end (vertically) to dry so air can get to both sides and dry the wood evenly. To help slow the drying, we recommend putting the wood in a cardboard box and loosely closing the top. For large pieces such as slabs and cross-cut sections, cut cardboard and tape it to the sides – this will prevent the surface or end grain from drying faster than the rest of the wood. End Grain Sealer can also be applied to these large pieces while drying.

A moisture meter can be used on the wood since Pentacryl™ will not affect the reading. Keep in mind that the moisture meter will only read the surface moisture content of large pieces and not the inside. It may take up to 2 years for these pieces to completely dry.

**Gluing and Finishing:** Once completely dry, the wood can be sanded, glued, stained and/or finished. Both oil based or water based products can be used. If needed, wipe down the surface of the wood with mineral spirits or Solvitol™ to remove any residue and prepare the wood for gluing or finishing. Allow the surface dry overnight before applying glue or finish.

Low VOCs. Approved by Air Resources Board of California and Health Canada.

Keep out of the Reach of Children

DISCLAIMER: Being that wood is a natural material and is susceptible to varying degrees of shrinkage, reaction, deterioration, and because of varying climatic conditions, varying experience of the user and may be applied under conditions beyond our control, as seller, we make no warranty expressed or implied as to this material or its use. All information stated herein is accurate to the best of our knowledge and is based on thorough testing.

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