



PRESERVATION Solutions

Pentacryl® Green Wood Stabilizer

Pentacryl is formulated to prevent cracking, splitting, and warping of green wood during the drying process. Does not contain silicone, wax or mineral oil.

Coverage: To determine how much Pentacryl is needed, input the size and type of wood into the *Wood Calculator* on our website: preservation-solutions.com

Directions: Do not dilute. Read the full directions prior to using. *Pentacryl* works best on fresh cut, green wood with a moisture content above 25-30%. It should be applied as soon as the wood is cut, before it has a chance to start drying. If the surface of the wood has dried out, LIGHTLY wet it with water prior to treating. For additional information, see the technical section on our website.

Safety glasses and rubber gloves should be worn to prevent possible eye and/or skin irritation.

To be effective, the wood needs to be completely saturated. There are 2 methods used to apply *Pentacryl*: soaking or brushing/rolling on. For best penetration, treat inside a shop or garage out of the weather with both *Pentacryl* and the wood at room temperature, above 65-70°F.

Do not use *Pentacryl* on soft, spalted or punky wood. See our *Polycryl* product for hardening soft wood.

Soaking: Soaking wood, if possible, is the most effective. Fill a plastic, fiberglass or rubber container with enough *Pentacryl* to cover the wood. Do not use a metal container, as it will react with tannic acid from the wood and discolor it. Place small, wooden stickers (like chopsticks) under your wood to allow absorption from the bottom. Soak wood 24 hours per inch of thickness. For thicker pieces, soak 36 hours per inch of thickness. When the wood is saturated, remove it from the soak tank, drip dry and proceed to drying. Leftover *Penatcryl* can be re-used on other wood in the soak or strained and stored back into the original container.

Brushing: This method is ideal for wood too large to soak. Lay the wood on a piece of plastic large enough to wrap over the top. Brush or roll on a heavy coat of *Pentacryl* to all sides of the wood, applying an extra coat to the end grain where most of the absorption will be. Cover the wood with the extra plastic in between coats. As soon as *Pentacryl* soaks in, you can apply another coat. Repeat this process until the wood will no longer absorb any more product (it will lay on the surface).

Try to complete the brushing treatment within 1-2 days to prevent mold from growing under the plastic. When the wood is saturated proceed to drying.

Drying: Remove the plastic to dry. Even though *Pentacryl* will speed the drying time by approximately 30% (because it displaces the moisture), it is important to dry the wood SLOWLY and controlled. Place the wood away from direct air movement, heat source, and sunlight. Ideal drying conditions are in an enclosed area, 50-65°F with relative humidity at 25-55%.

Drying time will vary depending on the type (density) and size of the wood, the original moisture content, the relative humidity and temperature. Stand wood cookies on end (vertically), while slabs and larger pieces can be stickered horizontally allowing enough space for air flow.

To help slow drying, smaller pieces can be evenly spaced in a cardboard box or buried in wood shavings. For larger wood cookies, trace and cut out cardboard circles to tape to both sides – this will slow the end grain drying. *End Grain Sealer* can also be used, see the directions for this.

Kiln Drying: *Pentacryl* treated wood can finish drying in a kiln. Since kiln temperatures and humidity levels vary, it is recommended to run some test pieces first.

A moisture meter can be used accurately as *Pentacryl* will not affect the reading. Note that meters with prongs will only read the surface moisture of thick pieces and not the inside. It may take 1-2 years for the center area of large pieces to completely dry.

Gluing and Finishing: Once completely dry, wood can be sanded, stained, wood burned, glued and/or sealed. Oil or alcohol-based stains, dyes and sealers work best as water-based products may leave the wood tacky. If needed, wipe the surface with mineral spirits first to remove any residue, then allow to dry overnight prior to applying a glue or finish.

If *Pentacryl* will be used on wood intended for outdoor use, an exterior sealer must be applied to prevent it from leaching out in the weather

Pentacryl is not food certified, therefore, it is not recommended for use on wood that will come in direct contact with food or beverage.

First Aid: Avoid getting in eyes, on skin or on clothing. Causes eye irritation and may irritate skin causing dryness. If in Eyes: Rinse with water for several minutes. If on Skin and Clothing: Wash skin with soap and water. Remove and wash contaminated clothing. If skin or eye irritation persists, get medical attention. Store product closed in original container in a cool, dry area.

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 here is accurate to the best of our knowledge and is based on thorough testing.

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