SP-11™
Waterlogged Wood Treatment

SP-11™ is a non-toxic formula of modified polymers and a high flash point solvent that does not contain sulphur (which can cause deterioration). It is designed to treat and preserve waterlogged and excavated wood artifacts. SP-11 works by displacing the high amount of water in these artifacts and when dried leaves a thin coating on the wood cell walls, which prevents the cells from collapsing and shrinking. It does not contain silicone, glycol, wax or mineral oil. There are no harmful fumes or foul odors.

Benefits of SP-11™ treatment on wooden artifacts:
- It is easy to use and does not need to be heated or diluted.
- SP-11™ is a small molecular weight polymer, which allows for easy penetration.
- It is highly soluble in water which also aides in greater penetration.
- It does not break down in acidic conditions.
- Treated wood is not sensitive to humidity or temperature changes, non-hygroscopic.
- Very little extra weight is added to the wood after treatment.
- If need, artifacts can be re-glued once the wood has dried.
- SP-11™ will not darken the wood leaving it looking natural.

Since each artifact to be treated is unique depending upon the size, type of wood, and degradation, the directions listed below are a general outline to follow. A treatment method may need to be adapted that works for the particular piece you are preserving. We are available for questions and additional guidance at info@preservation-solutions.com or 303.642.3060.

Directions: The wood should first be cleaned with a mild detergent and a fungicide or mild bleach solution. Gently clean the artifact using a soft brush to remove dirt and mud.

SP-11™ and the wood to be treated should both be at room temperature or slightly warmer before applying. Do not heat the solution and do not dilute. Even though SP-11™ is not hazardous, we recommend wearing safety glasses to prevent it from splashing in and irritating your eyes. Rubber gloves and an apron should also be worn. Read the directions completely. Clean up with soap and water.

There are two methods used to apply SP-11™, soaking or brushing on.

Soaking: For smaller artifacts, soaking the wood, if possible, is the most effective. Fill a plastic or fiberglass container with enough SP-11™ to cover the wood. Do not use a metal container as it will react with the tannic acid in the wood and discolor it. Apply small stickers under your wood so that the wood does not sit directly on the bottom of the soak tank. Soaking the wood for a minimum of 30 days is recommended. It will not harm the wood to soak it longer. Penetration time depends on the size, type, temperature and degradation of the wood.

Note that the residual water and dirt from the wood will settle to the bottom and leave a creamy looking sludge. If the solution is going to be re-used on other wood, it is recommended to drain off this sludge with a valve on the bottom of the tank.

After the wood has finished soaking, remove it from the tank, drip dry and proceed to drying.
**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). Brush on repeated coats of SP-11™ to all sides of the wood applying extra coats to the end grains. Cover the wood with plastic to prevent premature drying during the treatment process. Repeat this process until the wood will no longer accept any more SP-11™ (it will lay on the surface). Keep the wood wrapped up in plastic in between brushing applications. When the wood is completely saturated, proceed to drying.

**Drying:** Remove the plastic to dry. It is important to dry the wood SLOWLY. Ideal drying conditions are 50-70°F with relative humidity at 45-65%. Artifacts should be dried in a room with very little air movement and no direct heat.

Drying time will vary depending on the type (density) and size of the wood and the drying conditions. It may take several years for large pieces to completely dry.

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.

Developed and Manufactured in the USA by:

**PRESERVATION SOLUTIONS, LLC**
Golden, CO  80403
Ph: 303.642.3060  Fax: 303.648.6486

[www.preservation-solutions.com](http://www.preservation-solutions.com)