

# **PetraWood™**

## **Internal Wood Protector**

**PetraWood™** was developed to permanently seal, waterproof, and harden wood products. PetraWood™ is water based, non-toxic and non-flammable.

PetraWood™ is NOT a WOOD FINISH, as it works only INTERNALLY to harden and densify the wood – thereby protecting it and extending the useful life of wood structures.

The proprietary catalyst in PetraWood™ allows it to penetrate through the layers of cells in the wood, where PetraWood™ reacts with both the acids and the alkali present in the individual cells of most woods forming an aero silica gel membrane on the surfaces of the cell walls.

This membrane forms an internal seal and barrier against water and other causes of deterioration.

Over the 6 to 12 months following application, the aero silica gel membrane formed will hydrate and harden into glass petrifying the wood treated and is effective whether applied on surfaces that will be above or below grade.

PetraWood™ will not permanently alter the color, texture, or any other physical characteristic of the natural wood to which it is applied. If initial darkening occurs, just apply a wood brightener and rinse. Oxalic, phosphoric, and citric acid brighteners will bring the wood right back to pre-treatment coloration.

PetraWood™ provides a prepared surface 300% more effective than wood in the bonding of varnish, stains, paint and mastics. It leaves a “bondable” surface to which a wide variety of coatings, stains or paints can be applied, including poly ureas / and urethanes.

### **Advantages**

- Eliminates need for constant reapplication of wood finishes
- A one-time application will petrify the wood to the depth penetrated
- Leaves clear, natural finish with no surface film
- Helps wood retain and structural integrity longer
- Decreases or eliminates deterioration and weathering

- Enables easier ice and snow removal
- Increases resistance to grease, oils and acids
- Non-toxic, environmentally and ecologically friendly
- Easy clean up with water
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### **Uses**

- Cedar Shakes
- Decks
- Fence Posts, Rails and Slats
- Wood Shingles
- Piers
- Window Boxes, Frames and Sash
- Wooden Planters
- Anything made of wood needing a longer life
- Serves as a “primer” to increase the bonding and sticking of paint and surface coatings.

### **Surface Preparation**

Previously non-treated, or bare wood needs no prior preparation. Any existing paint or surface treatment must be removed for PetraWood™ to penetrate and be effective.

Remove by scraping, grinding, and / or applying a suitable caustic solvent remover.

Old and restored wood which has been stripped using chemicals and pressure treated wood should be “primed” before applying PetraWood™.

Apply a solution of baking soda and water and allow to soak into the wood. Let dry overnight and next day rinse off any surface residue of the baking soda...which will appear as a white powdery substance on surface. Then apply PetraWood™ while wood is still damp. This process insures adequate alkali IN the wood so the PetraWood™ will form the gel inside the wood.

### **Application Equipment**

- Low Pressure (20-60 psi) Sprayer
- Mop
- Roller
- Brush

### **Mixing & Application**

1. PetraWood™ is pre-mixed at the factory, but, Shake it well before using it, this agitation will

enhance PetraWood™'s effectiveness.

2. Do not dilute or mix PetraWood™ with water or any other liquid. Use only as supplied.
3. Normal applications only require one coat, but, depending on the porosity of the wood being treated, additional applications may be required.
5. Apply liberally and saturate all areas. On vertical surfaces, apply from the bottom up in problem areas where foreign matter such as grease or oil have penetrated below the surface, apply PetraWood™, then allow the foreign matter to be floated to the surface by the PetraWood™ as it penetrates. Flush off this foreign matter with water and reapply PetraWood™ after each flushing.

Several applications may be needed in order to flush all such foreign matter to the surface.

Note: While oil, for example, will be removed, stains from used motor oil may not.

6. PetraWood™ penetrates the surface within two to four hours after application.
7. Limited foot traffic is permissible after as little as thirty minutes.
8. Clean up is with clean water.

### **Coverage Rates**

Coverage rates with PetraWood™ depend on the porosity, age and hardness of the wood being treated.

Coverage can range from 75 to 150 square feet per gallon.

### **Packaging**

- 5 Gallon Pails
- 55 Gallon Drums

### **Limitations**

PetraWood™ is water based: PetraWood™ will freeze. As such it should never be applied if the surface or ambient temperature is or will drop low enough (overnight?) to freeze the material.

### **Caution - Please Note**

1. Do not apply PetraWood™ or allow any overspray from applications to come in contact with glass, glazed surfaces, or aluminum, as etching will occur. In case of accidental contact, rinse thoroughly and immediately with water.
2. PetraWood™ is not meant to fill or seal visible cracks in wood.
3. For surfaces not specified in our literature or if you are uncertain as to previous chemical treatments, (to the surface you are considering applying PetraWood™ to), we recommend that PetraWood™ be applied to a small test area first.
4. If PetraWood™ becomes frozen, thaw out completely and shake well to fully remix the material prior to using. Freezing will not harm the product.
5. PetraWood™ will expand if it freezes. It will and can burst containers if it freezes.
6. PetraWood™ will not reflect UV rays or inhibit damage from UV rays.

### **Disclaimer**

SolvingConcreteProblems.com and WyomingWoodCare.com believe this information to be true to the best of our knowledge and our products are of the highest quality and uniform within manufacturing tolerances.

Since no control is exercised over product use, no warranty, expressed or implied, is made as to the suitability of products for a particular use or as to the effect of such use, and no liability is assumed, directly or indirectly.

**Buyers and users are encouraged to conduct their own tests prior to application.**