

# PROTECRETE®

## CONCRETE'S BEST SOLUTION

### 1. Product:

PROTECRETE-WPS  
Wood Protectant Sealer

### 2. Manufacturer:

PROTECRETE, Division of:  
Applied Concrete Technology, Inc.

### 3. Description/Basic Use:

PROTECRETE-WPS is a milky-tan, user-friendly, odorless nonflammable, waterborne liquid which does not contain chemical solvent.

### Why WPS is Needed:

Because wood fibers absorb water, they expand as water penetrates wood. As absorbed water evaporates and wood fibers begin to dry, fibers shrink. The expansion and contraction cycles, created by water absorption/ desorption, causes wood to become cracked and/or distorted, even if pressure treated, since pressure-treated wood/lumber is treated only with preservative agents, not waterproofers.

### Basic Use:

WPS is effective as a wood protectant, color stabilizer, waterproofing sealer and preservative, protecting wood against fungus, mildew, algae, airborne pollutants, insects, etc. WPS's waterproofing ability will alleviate or prevent warping, cracking, shrinking, etc. Also water absorption is a necessary factor in growth of mold, mildew, rot, etc. WPS also provides UV damage resistance to wood. WPS deeply penetrates, dries clear and greatly exceeds environmental requirements. WPS may be used on horizontal or vertical surfaces, and WPS can be used on all quality exterior woods.

### 4. Some Advantages:

- Seals out water/moisture
- Stabilizes color
- Provides UV damage resistance
- Is safe, waterborne
- Prevents/greatly alleviates cracking
- Prevents/greatly alleviates warping

- Prevents/greatly alleviates shrinkage
- Prevents/greatly alleviates age discoloring
- Prevents mold and algae growth
- Dries clear/golden
- Greatly exceeds environmental requirements
- Non-toxic following application and drying
- Retains original appearance of old wood
- Provides richer golden look to new wood
- Prevents/greatly alleviates rot
- Prevents insect attack

### 5. Installation:

**FENCES:** WPS is applied to fences using a variety of methods such as spray, brush, or roller. The suggested method is to use a combination of all three methods. On the smooth side, apply a generous application of WPS using a long-nap roller. Go as far as is comfortably feasible in about 30 minutes, then roll a second coat over the same area, repeating until smooth side application is finished.

On fence side where posts, bracing, etc. are, begin by spray applying WPS around posts and other hard-to-get-at areas, back-brushing spray application with bristle brush for uniformity and best penetration. Next, apply remainder of post side of fence using garden sprayer, going as far as comfortably feasible in about 30 minutes. Then recoat same area again, with roller this time. Continue wet on wet applications until finished. Check for holiday voids or missed spots, then touch up, if any. New wood coated with WPS takes on a golden richer look, while weathered wood retains its same appearance, following WPS application. Application of WPS stabilizes colors of both. On not yet built fences, dip bottom end of planks in WPS for about 30 seconds to seal bottoms.

**NEW WOOD:** WPS should immediately be applied to all new wood, even if pressure treated. New wood should be coated as soon as possible, minimizing damage while maximizing protection.

**OLD WOOD:** Complete needed repairs first. Should wood need to be cleaned for WPS penetration or for aesthetic reasons, clean surface with a stiff bristle scrub brush and water, using one cup of bleach per gallon of water, if removing stains, etc. Since bleach whitens discolored wood, entire surface should be done. Rinse thoroughly to remove bleach water. Allow wood to dry for minimum of two days prior to application of WPS.

### CEDAR SHAKES AND SHINGLES:

Cedar wood shakes can be waterproofed/preserved with WPS. Prior to treating old shakes, repair any leaks, loose nails, bad flashing, etc. Replace any deteriorated shakes that cannot be salvaged. Also, prior to applying WPS, remove dirt, leaves and debris. Allow shakes to dry for two days following rainfall. The low pressure airless sprayer provides the best finish on shakes, and is most effective for this particular application. Apply two wet on wet coats, allowing a half hour to one hour for absorption between coats, thoroughly treat vulnerable ends of shakes. Airless spray is also the best application method when applying WPS on wood shake or shingle siding.

**POWER WASHING WOOD:** Power washing wood is one method of removing chemical extractive stains, dirt and general discoloration. The power wash unit should be capable of 2,000 psi operating pressure while delivery 4 gallons of water per minute. Nozzle should have a 15 degree spray fan and be held 8 to 12 inches away from surface for optimum cleaning. Use only clear tap water. Care should be taken to prevent damage.

### WORN, STAINED, PREVIOUSLY

**COATED SURFACES:** WPS's ability to penetrate wood is essential, to beneficially protect it. If there is doubt about whether WPS will penetrate or not, splash a glass of water on surface of wood in question. Should the surface absorb water, making it noticeably darker, then it needs WPS protection. If water beads instead of absorbing into the wood, then the surface is already

protected. Should WPS eventually appear to have dissipated, or have lost its effectiveness, water splash technique may be used to ascertain whether the wood is in need of a WPS recoat, or not. A wet on wet application of WPS should remain effective for about two years, depending on environment and annual rainfall volume.

## 6. Application Methods Detailed:

WPS is applied using a variety of application methods, i.e., brush, roller, pad, garden sprayer, airless spray unit, or dipping.

**BRUSH:** Brushing with a good quality bristle brush is probably the best method for both vertical and horizontal surfaces. Brush application is effective for getting WPS uniformly into wood.

**ROLLER:** A paint roller with long nap is effective in applying WPS to large vertical and horizontal surface.

**PAD:** Pad applications perform an excellent job of getting WPS into surfaces. Pads also work well to even out spray applications, insuring good penetration and uniform appearance. Pads also are effective for applying WPS onto decks.

**GARDEN SPRAYERS:** Garden sprayers are used to apply vertical or horizontal surfaces. However, for best penetration as well as most uniform appearance, back-brushing is recommended.

**AIRLESS SPRAYERS:** WPS can be applied using a low pressure airless sprayer. This method of application is not recommended for the inexperienced. Improper use of airless spray will result in uneven, and/or thin application, which may lead to early finish failure and/or poor appearance. For best results,

back-brushing or back-rolling an airless sprayer application is suggested, to provide the best penetration and more uniform appearance.

**DIPPING:** Dipping is effective, especially on new shakes. However, dipping may not be practical in all situations. Dipping requires the use of a container of adequate size to allow the complete immersion of wood. Wood has to be clean and dry. Each piece should be dipped for a minimum of 10 to 15 minutes or until wood is thoroughly saturated, then dried on an elevated rack to provide good airflow.

## 7. Important Tips to Remember:

Protect everything in the area that you don't wish to coat, even plants and shrubs. WPS should be applied only when temperature is between 50 and 90 degrees Fahrenheit and when rain is not expected for the next 24 hours. To even out, always wipe excess WPS which did not penetrate after about a half hour, or before drying, to prevent splotchy, uneven areas in finish. Heavily apply WPS in opening between boards to protect board sides. *ALWAYS STORE OUT OF CHILDREN'S REACH.* WPS, while still wet, can be removed with soap and water. When dried, WPS is difficult to remove. Clean splatters and drips immediately, prior to drying. Application tools should be cleaned immediately after use.

*WPS IS SUPPLIED READY TO USE;  
DO NOT DILUTE.*

## 8. Precautions:

WPS has a significant trace of VOC, but it is well below even the most stringent limitations. WPS is completely non-toxic and has no VOC content after drying.

While applying, contact with skin and eyes should be avoided. If skin is contacted, wash with soap and water to remove. For accidental eye contact, immediately flush eyes with clean running water. Incidental spray droplets or splatters contact the lips or tongue is not health hazardous. However, if accidentally ingested, get medical attention. Do not induce vomiting.

## 9. Warranty:

ACT warrants that if any goods supplied prove defective in workmanship or material, that ACT shall replace them or refund their purchase price. This warranty is made in lieu of any and all other warranties, expressed or implied, including the warranties of merchantability and/or fitness which are hereby disclaimed. It is understood and agreed that Buyer's sole remedy, and therefore ACT's liability, whether in contract, tort, under any warranty, in negligence, or otherwise shall be limited to the return of the purchase price paid by Buyer or replacement of any defective goods sold by ACT and under no circumstances shall ACT be liable for special, indirect or consequential damages. The price stated for the goods is a consideration in limiting ACT's liability. Before application, the user shall determine the suitability of the product for user's intended use and user assumes all risks and liabilities whatsoever in connection therewith. The terms of this paragraph may not be orally modified. There are no warranties which extend beyond the face hereof.