

# DEFY WATER REPELLENT WOOD STAIN

## PRODUCT DATA

### DEFY Water Repellent Wood Stain

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## DESCRIPTION

**DEFY Water Repellent Wood Stain** is a high performance (synthetic oil-in-water solution) semi-transparent finish that prevents the damaging effects of water, fungi, and UV radiation on exterior wood. It is a VOC-compliant blend of synthetic resins which penetrate wood pores to block out water and provide long-lasting protection from weather damage. The product's excellent penetration helps eliminate surface buildup and peeling.

## USES

DEFY Water Repellent Wood Stain can be used on interior or exterior wood surfaces including: wood siding, log homes, decks, fences, shake shingles, outdoor wood furniture, pressure-treated and all other natural wood surfaces. DEFY is available in clear, as well as a wide range of semitransparent finishes. NOTE: Clear will allow wood to age to a silver light gray color.

## BENEFITS

- Superior UV resistance
- Mold and mildew resistant
- Will not flake or peel
- Soap and water clean-up
- Easy to maintain

## DIRECTIONS FOR USE

**Surface Preparation:** It is always beneficial to allow new wood to weather for 3 to 6 months to allow the wood's pores to open and take the stain better. Pressure treated wood must be allowed to weather for 3 to 6 months to adequately dry out. **STRIP:** Do not use DEFY Water Repellent Wood Stain over painted or varnished surfaces. These surfaces must be stripped using DEFY Exterior Wood Stain Stripper prior to application of the product. **CLEAN:** Wood surfaces must be clean, porous, and dry before applying DEFY Water Repellent Wood Stain. Use DEFY Wood Cleaner to remove mill glaze, mildew, graying and other foreign matter that might block surface pores and interfere with product penetration. Rinse thoroughly with garden hose or pressure washer (maximum 1200 p.s.i.). DEFY Wood Cleaner will darken redwood and some types of cedar; however, this darkening will disappear once the wood is treated with DEFY Wood Brightener. **BRIGHTEN:** While surface is still wet from cleaning, use DEFY Wood Brightener to brighten surface so product will not appear darker than normal. Brightening also opens the pores of the wood, allowing maximum penetration of the stain. Let surface completely dry after rinsing. Wood is ready to be treated if a few drops of sprinkled water penetrate wood in 1 - 2 seconds.

**WEATHER CONDITIONS:** Surface and air temperatures should be between 45°F and 95°F. Avoid application in direct sunlight. Although surface may be slightly damp, do not apply to wet or water saturated surfaces, or when rainfall is expected within 12 hours.

## APPLICATION

Test a small area before starting general application to assure desired results. Remember, DEFY will dry to a slightly different color than when it is wet. Do not thin product. Provide adequate ventilation.

SHAKE OR STIR CONTENTS BEFORE, AND PERIODICALLY DURING USE. TO

ENSURE ABSOLUTE COLOR UNIFORMITY FROM CONTAINER TO CONTAINER, MIX AT LEAST ONE THIRD OF THE PRODUCT FROM A USED CONTAINER WITH THE CONTENTS OF A NEW ONE. **NOTE:** Use plastic, cardboard, and/or drop cloths to protect all adjacent non-targeted surfaces such as siding, windows, masonry, plant life, etc. from overspray and runoff.

**BRUSH:** Use a good quality nylon or polyester brush.

**SPRAY:** Use lowest pressure that achieves a uniform spray pattern to minimize fogging and overspray. For airless sprayers, use tips between .011 and .015. A pump-up sprayer may also be used. Back brush to ensure a uniform application. **ON ALL SURFACES:** Saturate wood with two coats for maximum protection. Apply first coat to saturation and brush product into surface working out all drips, puddles, or areas of overspray before product dries. Apply a second coat between 20 minutes and 2 hours after the first application. Important: Do not allow complete drying between coats. **Note:** Complete entire sections or to a natural break before allowing to dry. Never break in the middle of a board as it will cause unsightly color variations. Thoroughly coat the ends of boards or logs to prevent water penetration. All surface checks on logs should be thoroughly coated. **VERTICAL SURFACES:** Start from the bottom and work up. Treat the entire length of a board before moving up. If necessary, brush or feather in to avoid lap marks. Brush or roll in product before it dries and work out drips, runs, or overspray. **DECKS:** Start by applying DEFY Wood Stain to the outside of railings (use a drop cloth under railings to prevent a buildup of DEFY on horizontal surfaces), benches, and undersides of upper level decks (only one coat is required on undersides). Once underside is treated, immediately brush out all overspray, drips, etc. on top of deck. Treat horizontal surfaces last. **WOOD SHINGLES:** Clean and test for porosity. Apply two, heavy saturation coats. Depending on porosity, a third coat may be necessary to achieve total saturation. Backroll, or brush between coats to ensure a uniform application. Brush out all drips and puddles. To avoid restart lines, start at the bottom and treat entire length before moving up.

**HELPFUL TIPS:** Immediately remove overspray from non-targeted areas with soap and water. Overspray that is allowed to dry will be difficult to remove; dried product cannot be removed from concrete and masonry.

**DRY TIME:** To touch, 2 to 6 hours depending on temperature and humidity. Allow 24 hours for deck to dry before using. **CLEAN-UP:** Clean tools and equipment immediately after use with soap and water. **COVERAGE:** With two coats, one gallon of DEFY will cover approximately 100-150 sq. ft., depending on wood texture and porosity.

## MAINTENANCE

Occasional cleaning with mild detergent and water will generally restore treated surfaces to their original appearance. For maximum protection a light maintenance coat is recommended when wood begins to fade. To minimize darkening when applying a maintenance coat, first brighten with DEFY Wood Brightener. Recoat horizontal surfaces every 12 - 24 months, depending on foot traffic and environmental conditions. Vertical surfaces should be treated every 2 - 4 years or before wood starts graying. VOC content is less than 2.83 lbs/gal (340 grams per liter)

## CAUTIONS

**Keep out of reach of children!** Do not take internally. Avoid contact with eyes, skin, and clothing. Avoid breathing mist. Close container tightly after each use. Do not re-use containers. First Aid: External: Wash skin with soap and water. Eye contact: Immediately flush with clean water for 15 minutes. Consult a physician. Internal: If swallowed, give two (2) glasses of water, induce vomiting. Call a physician or poison control center immediately.

## LIMITED WARRANTY

Our recommendations for use of this product are based upon tests believed to be reliable. Since field conditions vary widely, the user must determine the suitability of the product for the particular use and specific method(s) of application. Due to the fact that SaverSystems has no control over surface preparation and application methods, no guarantee as to results are offered, expressed or implied. SaverSystems' warrants this product to be free from defects. SaverSystems' liability shall be limited in all events to supplying enough product to re-treat the specific areas to

which defective product has been applied. This warranty does not include the cost of labor for application. SaverSystems shall not have any other liability including direct, incidental, or consequential damages. Some states do not allow the exclusion of incidental or consequential damages so this limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

## PACKAGING

Available in 5 gallon recyclable plastic containers.

## TRANSPORT AND STORAGE

DEFY Water Repellent Wood Stain is not considered hazardous under Department of Transportation regulations. Do not stack pallets. Keep product from freezing.

## PHYSICAL PROPERTIES

<b>Composition</b> .....	Natural and synthetic resin blend
<b>Solvent</b> .....	Water
<b>Specific gravity at 25° C</b> .....	(1.01)
<b>Density</b> .....	(8.4 #/gallon)
<b>Flashpoint</b> .....	none
<b>VOC Content</b> .....	less than 340 gr/ltr
<b>Freeze/thaw stability</b> .....	up to 5 cycles
<b>Shelf Life</b> .....	18 months in original sealed container

## TECHNICAL DATA

**Test Results: ASTM D5401:** Percent water absorption on wood treated with DEFY <1%.

**ASTM G53:** Accelerated weathering (QUV) 2,500 hours. Excellent color retention; no loss in water repellency.

**Outdoor Exposure:** Indiana and Florida test fences. Excellent color retention, no loss in water repellency.