

DESCRIPTION: WoodSteel – WS100 is a ready to use. Solvent based silicon polymer for protecting and weatherproofing natural wood, pressure treated wood, OSB, plywood, wood products, products made from particle board, and other man made wood or cellulose composed building materials and finished products. WoodSteel prevents water entry thereby stopping rot, decay, cracking and warping; it resists water based stains, and greatly reduces splitting, grain raising, shrinkage and swelling. WoodSteel forms a barrier that resists water entry including salt water by molecularly bonding with wood and other materials where cellulose is the primary component. WoodSteel is a maximum strength, deep penetrating one coat water proofing sealant. Its advanced state-of-the-art formulation provides the maximum in protection from all forms of wood damage.

WS100 is non-yellowing, easy to apply and cures rapidly. Immediately upon application it begins molecularly bonding with the material upon which it is applied the union of which forms a clear, durable, water resistant, seamless matrix.

Why protect wood from water? Because water entry expands wood, widens cracks and finally deteriorates the structure of the wood. In addition, water promotes microbial attack (fungi, moss, lichen, mold, etc.) and water content of as little as 20% in wood will accelerate the breakdown of the wood substrates. Finally, pressure treated lumber is not water proof and is subject to swelling, splitting, rot, deterioration and decay; 4" X 4" posts used to anchor fencing rot and break off often in only a matter of two to three years.

FEATURES AND BENEFITS: WoodSteel prevents damage from water and other liquids. It weatherproofs, protects, and preserves wood of all types. It is exceptionally resistant to salt water, wood exposed to rain and or standing water and beams and posts that are placed in the ground.

Features

- Maximum protection from water damage
- Strongly resists swelling, rot, decay and warping
- Maintenance free – long lasting, up to five years
- Fast curing, usually 30 minutes or less
- Works with single coat or multiple coats
- Easy, simple application – can be applied with pump up sprayer, paint roller or brush
- Can be applied on damp surfaces
- Deep penetration molecular bonding
- Highly resistant to UV rays
- Especially effective against salt water damage
- Can be used indoors and outdoors
- Resistant to pool chemicals
- Once cured harmless to humans and pets
- Prevents UV damage; will not yellow
- Ready to use, no mixing, no thinning

Benefits

- Enhances property appeal and value

- Significantly improves durability for long lasting performance
- Dramatically reduces water intake preventing water damage and premature failure
- Strong, long lasting, aesthetic water beading

INSTALLATION

SUBSTRATES AND SURFACES: WoodSteel can be applied on wood and cellulose based materials such as:

- Decks, docks and fences
- Exterior boards and beams that touch the ground or concrete exposed to ground water or rain build up
- Wood thresholds
- Exterior wood trim, stairs, wood siding, wood shingles
- Pressure treated wood and posts above and below the ground
- Particle board and plywood
- Exterior wood furniture
- Wood boat trim
- Exterior wood used in signs

WS100 preserves wood. It is particularly effective on eastern white pine, southern yellow pine, pressure treated wood, cedar, cypress, plywood and other porous wood surfaces but is also on teak. Use on previously coated or uncoated, vertical or horizontal, interior or exterior surfaces. WS100 will slightly darken to darken some species of wood. Always test a small area prior to application for any color change.

ALWAYS TEST each type of wood for penetration, appearance and protective ability before overall application.

- BE SURE to test if application area has been sealed before (another product) for product compatibility.
- BE SURE test area and application area are dry before application. Test area and the surface to be treated can be damp, damp is defined as touching with a tissue and tissue does not get wet.

If the area to be treated has been underwater for long periods such as a waterfall or the backside of the substrate is adjacent to water 24 – 48 hours will be necessary. If unsure of substrate moisture content, test with a moisture meter.

PREPARATION: Protect passersby, building occupants, people, vehicles, property, plants, painted surfaces, windows and all non-masonry surfaces from product, residue, splash, fumes and wind drift. Use polyethylene or other proven protective material. Surface to be treated must be clean and dry. Remove dirt, oil, grease, paint, waxes, efflorescence and surface sealers. Ensure fresh air entry and cross ventilation during application and drying. Extinguish all flames, pilot lights and other potential sources of ignition during use and until all vapors are gone.

CLEANING THE SUBSTRATE: Be sure the area to be treated is clean and free of dust, removable stains, rock particles, leaves, etc. Power washing the area to be treated with low pressure can be an effective cleaning

method. WS100 can be applied as soon as the surface dries. Temperature, humidity and substrate porosity determine the length of drying time between power washing and sealant application. Lower temperatures or high humidity slow evaporation; porous woods absorb more water and consequently take longer to dry.

- Pressure wash using the minimum amounts of water and pressure required to clean the surface – avoid saturation
- Immediately blow dry all water from surface,
- Let dry until surface appears and feels dry.

APPLICATION: Before applying read all sections above; do not dilute or alter; WS100 is for interior and exterior application. **ALWAYS TEST** a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment that will be used in application.

General Horizontal Application

- Apply an even saturation coat of WS100 with either a brush, paint roller, or pump up sprayer; an inexpensive pump up sprayer is recommended for large areas.
- Work in sections. Saturate a section with a single coat. When applied to a dry surface the surface will initially be wet then as product is absorbed it will turn to darker color and over a short period of time return to the natural color or slightly darker.
- Depending on the porosity of the wood additional applications may be necessary; apply subsequent applications once the prior application has been absorbed. As long as the prior coat continues to be absorbed, additional coats may be applied.
- BE SURE to remove excess product and any puddling that may have occurred in depressions with brush, roller, cloth or blower.
- Repeat process for other sections.
- If desired, additional coats can be applied at later times, I.E. a month, a year, etc.
- Protect from rain for one hour after application.

General Vertical Application

- Same as for Horizontal Application except as follows:
- Apply from the bottom up. Allow a six to eight-inch rundown below the contact point – saturate the surface; vertical surfaces leave less time for penetration.
- Brush out any runs and drips that do not penetrate after a few minutes – these can leave visible drip lines if allowed to dry.

SURFACE AND AIR TEMPERATURE

Surface and air temperature play key roles in a successful application.

- Ambient air temperatures ideally should be 50 - 95°F (10-35°C); Temperatures above 95°F are marginal, that is the carrier will evaporate too fast not allowing the active silicone to chemically react with the substrate AND CAN DEPOSIT A WHITE FILM ON THE SURFACE.
- When surface temperatures are too hot, chemical solvent elements of the product called the carrier will

flash off (evaporate) too fast and preventing the remaining product elements to form an adequate bond which can lead to a shorten product life cycle. Typically surface temperatures above 90°F can create this situation.

- Where ambient temperatures typically reach above 90°F in the afternoon, application should be scheduled for the morning where it will be cooler. Hand held surface temperature reading devices are inexpensive and eliminate guess work.
- Air temperature below 55°F will cause the product to cure slower increasing the probability of less than adequate bonding.
- Drying time will be extended or shortened depending on the temperature and humidity.

SURFACE DRYNESS - HUMIDITY

Moisture plays a key role in activating WoodSteel. If the relative humidity is below 35% mist or lightly spray water over the area to be treated. Blow off excess water so there is no pooling – WS100 will float on water and not bond.

COVERAGE AND COATS

Application rates for the different species of wood will vary depending on the porosity of the wood.

Approximate Coverage Per Application:

- Low (denser) 500 sq. ft./gal; Medium Porosity 250 - 350 sq. ft./gal
- High Porosity (very porous) 200 – 250 sq. ft./gal

Reapplication: Reapply every three to five years for most exterior applications.

PACKAGING

- 1 Gallon (3.79 Liter) Units
- 5 Gallon (18.9 Liter) Units

LIMITATIONS

- Limited shelf life – remains storage stable for approximately 12 months in sealed containers.
- It is not compliant with the following: California Air Resources Board SCM Districts, South Coast Air Quality Management District, Maricopa County, AZ. Northeast Ozone Transport Commission,

Manufactured and marketed in compliance with, USEPA AIM VOC regulations (40 CFR 59.403)

CAUTION HARMFUL OR FATAL IF SWALLOWED. EYE, SKIN AND RESPIRATORY IRRITANT.

If swallowed DO NOT induce vomiting. Call physician immediately. In case of: Eye contact - flush with large amounts of room temperature water for 15 minutes. Skin contact- wash thoroughly with soap and water. Irregular or stopped breathing-administer oxygen, give artificial respiration. Get medical attention (immediately). Do not breath vapors or spray mist. Wear respirator approved by NIOSH. (NIOSH/MSHA TC 23C or equivalent).

FOR EXTERIOR & INTERIOR USE ~ Use with adequate Ventilation

Keep Out of Reach of Children

CUSTOMER CARE: Factory personnel are available for product, environment and job-safety assistance with no obligation. Call 877-333-8188 and ask for Customer Care - technical support. Please visit our website at www.serveonsealants.com.

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