



SILICONIZED ACRYLIC
WOOD GUARDIAN™
HIGH SOLIDS SEMI-TRANSPARENT STAIN
WOOD & DECK SEALER FINISH

PRODUCT DATA
#5631
05/12/16
superseding: 04/01/14

PRODUCT DESCRIPTION:

WOOD GUARDIAN™ is a siliconized acrylic, high solids semi-transparent stain wood and deck sealer finish. It is a high technology waterborne formulation of a core technology acrylic resin mixture resulting in an unsurpassed, highly durable gloss finish that is soft enough to expand and contract with porous wood, yet is durable and hard enough to accommodate deck traffic. **WOOD GUARDIAN™** protects the wood from sun while allowing the wood to gray naturally at a slower pace thus retarding the natural aging process (silvering) of new, unexposed fresh wood. **WOOD GUARDIAN™** effectively penetrates, seals, waterproofs and protects aged wood while resisting moisture penetration, and subsequent rotting and decay. It has excellent mildew resistance and possesses ultraviolet resisting nano-particles plus light stabilizing tinuvs that slow down the damaging effects of the sun's U.V. rays. It protects and beautifies wood surfaces for up to five years depending on atmospheric conditions and geographic region. Longevity and wear is relative to the amount of foot traffic to which the product is subjected. Periodic recoating of high traffic areas may be necessary. The ultimate combination of acrylic resins and high-performance silicone forms a wood finish that repels and beads up water, protecting against cracking, splitting and warping of wood. When coating begins to wear with age, prepare the surface (see surface preparation) and re-coat. **WOOD GUARDIAN™** is also available in a high solids Clear Gloss Wood and Deck Sealer Finish, Product #:5630.

PRODUCT USES:

WOOD GUARDIAN™ can be used on interior or exterior uncoated wood such as cedar, pine, fir, redwood, etc., and well weathered previously stained or painted wood surfaces using proper preparation. **WOOD GUARDIAN™** possesses excellent adhesion and can be used over other paints, stains and coatings once compatibility has been determined by testing an area and checking after 72 hours for adhesion and compatibility. **WOOD GUARDIAN™** is designed for use on structural lumber, wood siding, shingles, fences, doors, frames, sash, trellises, decks, pool decks, docks and spas.

SURFACE PREPARATION:

For proper adhesion and penetration it is essential that the surface is prepared properly. Smooth new wood should be lightly sanded with 80 to 100 grit sandpaper to remove mill glaze. Pressure wash all other wood with a water and chlorine solution using at least 1500 P.S.I. to remove any previous coatings, mildew, dirt, grease, grime and other foreign materials. If wood is weathered and has remained dark or silver gray after pressure washing, apply a solution of 1 part chlorine and 2 parts water and scrub with a stiff brush, then pressure wash again. Pressure treated wood must be weathered, dried and aged a minimum of 6 months before coating. All surfaces must be completely dry before applying **WOOD GUARDIAN™**. Do not coat soaked, wet or moist wood with this product!

APPLICATION PROCEDURE:

Stir well before using. Do not apply when temperatures are below 45 degrees Fahrenheit, or when humidity is very high. Do not apply to extremely hot surfaces or in direct sunlight. The surface must be dry and free of all moisture. On uncoated wood reduce the first coat only, with 1 pint water per gallon to achieve penetration. Coat from a dry area into an adjoining wet coated area. Keep the leading edge wet and distribute the product evenly. Quickly remove puddles and excess material. Use natural breaks as boundaries and coat individual boards from end to end. Do not apply when sealer will be subjected to rain or heavy dew before it has had enough time to dry (approximately 1 to 2 hours). Drying time will vary from location to location depending on weather conditions. Stir product occasionally during use. Apply using brush, roller or spray. Do not apply too heavily so that puddling occurs. When spraying, back roll with a thin nap roller cover. When rolling, use a thin nap roller cover. Sets to touch in approximately 1 hour. Wait at least 1 hour before recoating. Two coats of **WOOD GUARDIAN™** are recommended. Coating will appear to be milky, but will clear out as it dries. Apply as it is from the container. Wait at least 24 hours for foot traffic and at least 72 hours before placing any furniture on the coated surface.

Sprayers: Pump up stain sprayers can be used. Airless Sprayers may be too powerful, adjust pressure and other settings to spray a uniform amount of product without making runs, back roll with a thin nap roller cover.

Clean Up: Clean up all spills, tools and overspray immediately while the coating is still wet with warm soapy water.

GLOSS CHARACTERISTICS:

For increased gloss, multiple coats can be applied, but sealer will also be more sensitive to blushing with increased film buildup. ASTM D523 (Standard Test Method for Specular Gloss) Gloss will be 70-80 degrees when applied to a non-porous substrate.

NOTE: Blushing, whitening and/or hazing may occur if (1) surface is not completely dry and free of all moisture, (2) product is applied to extremely hot surfaces or (3) product puddles or is applied too thick.

TECHNICAL SPECIFICATIONS:		Rates & Times May Vary Beyond Specifications
Ambient Temperature of 77°F and RH of 50%		
FINISH:	Gloss	SPREAD RATE: 200 to 300 sq.ft./gal.
COLOR:	Semi-Transparent Stain	DRY to TOUCH: 1 Hour
VEHICLE TYPE:	Copolymer Emulsion	RECOAT: 1 to 2 Hours
SOLIDS by WEIGHT:	24% +/- 2%	CURE TIME: 5 to 7 Days
SOLIDS by VOLUME:	22% +/- 2%	SIZES: 1 Gal., 5 Gal., 55 Gal.
V.O.C.'s (averages):	.49 lbs./gal. • 50.0 g/liter	GALLON WEIGHT: 8.5 lbs. +/- .3 lbs.

Information presented on this Data Sheet has been compiled from sources to be reliable, and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so.

Wood



MATERIALS HEALTH, SAFETY AND ENVIRONMENTAL DATA SHEET

**MSDS#:
5631**

Product Identification	Product Name: WOOD-GUARDIAN™ Product Code #: 5631 General Usage: Clear Gloss Wood & Deck Sealer General Description: Acrylic Coating C.A.S. Number: None Established; Mixture	
Manufacturer Information	Manufacturer's Name: Nationwide Protective Coating Mfrs., Inc. Address: 7106 24th Court East; Sarasota, FL 34243-3993 Emergency Telephone: 1-800-423-7264 or 941-753-7500 Information: 1-800-423-7264 or 941-753-7500 Web Site: www.nationwidecoatings.com E-Mail: info@natcoat.net Date Effective: January 1 st , 2014	
Chemical and Physical Properties	Color: Transparent Physical State: Liquid Boiling Point: 212 Fahrenheit Specific Gravity (H ₂ O=1): >1 Vapor Presence: about same as H ₂ O Percent Volatile: 73-78% Evaporation Rate (Butyl Acetate=1): <1	Odor: Mild Odor Threshold: Unknown Melting Point: N/A Freezing Point: 32 Fahrenheit Solubility in H ₂ O: Soluble pH (undiluted): 7.5 to 8 Vapor Density (Air=1): <1
Fire Protection Information	Decomposition/Combustion: N/A Flash Point: N/A; Does Not Burn Recommended Extinguishing Media: N/A Flammable Limits: N/A	
Storage and Reactivity	Hazardous Polymerization: Will Not Occur Storage Conditions: Keep from Freezing Toxic Products Which May Form: None	
Transportation	Hazard Classes: None; Not Hazardous Hazard Labels: Not Required Hazard Determination: MSD Sheet Shipping Containers: Varies Shipping Class: Class 55; Water Based Paint	
Container Labeling	Explanation of Unique Labeling System: None Used	

Health Hazard Data	SHORT TERM EXPOSURE	
	Route of Entry: Inhalation: Skin: Eyes: Ingestion:	Precautionary Treatment Expected None Expected None Flush Immediately with large amounts of water for at least 15 minutes, holding eyelids open. Call a physician if irritation persists Call a physician if significant amounts have been Swallowed. Give patient large amounts of water or milk for dilution.
	LONG TERM EXPOSURE	
	Carcinogen: None Target Organ Effects: None Other Health Hazards: None Known	
Personal Protection	Respiratory Protection: Protective Clothing: Ventilation: Other Protective Measures: Eye Protection:	No inhalation hazard expected None Required Local None Safety Glasses
Spill or Leak Protection	Accidental Release or Spill: Neutralizing Chemical/Media:	Collect liquid or solidify with absorbent package for disposal N/A
Treatability	Biodegradability: With water prior to cure. Influence on Biological Wastewater Treatment: None Other Impacts on Wastewater Treatment: None Recommended Wastewater Treatment: Dilutable Constituents Interfering With or Not Amenable to Biological or Wastewater Treatment: None	
Recommended Waste Disposal	Dispose of in accordance with Federal, State and Local guidelines.	

EMERGENCY & INFO: 1-800-423-7264

Form based on O.S.H.A. Form 20. Information presented herein has been compiled from sources to be reliable and is accurate and reliable to be the best of our knowledge and belief but is not guaranteed to be so.

EMERGENCY & INFO: 941-753-7500