

INSTRUCTIONS/USE

WOOD COATING

Description

NanoTech Wood Coating is a 2 part, quartz coating designed to protect wood furniture, cabinets, decorative moldings and architectural elements. NanoTech Wood Coating is a top coat applied over other wood stains and finishes as the final layer of protection. Available in a gloss or satin finish, NanoTech Wood Coating is ideal for use in the home, the restaurant industry, marinas, and the great outdoors.

Surface

NanoTech Wood Coating is ideal for any wood finish requiring protection from extreme conditions: cabinets, wood furniture, wood moldings, wood siding, boat rails and bright work, wooden bars, decks and docks.

Solution

NanoTech Wood Coating protects against:

- Acid Etching
- Water spots (from food and beverage spills)
- Salt water
- UV Damage
- Damage due to bird & animal waste
- Moisture

Characteristics

Appearance:	Clear
Finish:	Gloss or Satin
Vehicle Type:	Solvent Base
Flash Point:	(C Penske-Martens close cup) -9c/15F
VOC:	Less than 100 g/L
Weight per Gallon:	7.36 lb/gallon
Non-Breathable	

*REQUIRES PART B CATALYST

Spread Rate

Recommended Spread Rate per coat:
Over Varnish, and Urethanes
Wet mils: 3.0-4.0
Dry mils: 1.8-2.5

Coverage

Coverage: approximately 400-525 sq ft/gal
Coverage will vary depending on the porosity and texture of the substrate and application method.

Surface Preparation

NanoTech Wood Coating is designed to be a final clear top coat that protects finished wood. It is designed to be applied over sealed, stained, and finished wood surfaces that have a coat of urethane, varnish, or polyurethane. Surface must be clean, dry, and in sound condition. On newly finished surfaces, lightly sand with 220 grit sandpaper or #000 steel wool, and tack cloth off any remaining dust. On older existing surfaces, remove all oil, dust, grease, dirt, and other foreign material using NanoTech Coatings Surface Prep. Then lightly sand and repair any worn or damaged areas and refinish those. Allow to dry and cure then lightly sand with 220 grit sandpaper or #000 steel wool, tack cloth off any remaining dust.

Application Instructions

Test Area

Test NanoTech Wood Coating on a finished sample to ensure adhesion and determine that the desired look is achieved. There will be a slight enhancement or change in appearance of the finished wood. NanoTech Wood Coating, as with any fine finish look, is always best applied by spraying, however it can be applied by brushing or rolling methods, depending on the configuration of the piece, the location and the desired finish. With all methods of application, always cover any adjacent surfaces to keep them free of drips or accidental coating. If applying outdoors, make certain the ambient temperature is between 45°F and 105°F, RH 90% or less and that there is no chance of rain for a minimum of 5 hours after the estimated time of completion of the coating process. Take necessary precautions against natural elements.



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Spraying

NanoTech Wood Coating is a 2 component product requiring PART#B CATALYST. When surface preparation is complete and surface is dry and free of dust, shake the container of NanoTech Wood Coating thoroughly as the nanoparticles will sink to the bottom. These need to be resuspended in order for proper performance of the coating. Pour the desired amount into a clean container large enough to allow for an equal amount of the NanoTech Coatings Catalyst to be added.

Pour an equal amount of the NanoTech Coatings Catalyst into the container with the NanoTech Wood Coating. Stir both components together thoroughly. Approximately every 15-20 minutes re-stir to re-suspend the nanoparticles during the coating process. Using a high volume, low pressure (HVLP) spray gun with an approximately 1.4 size tip and the pressure set at approximately 25 psi. On a separate piece of cardboard first spray a test pattern to achieve a 6" to 8" elongated pattern approximately 1 ½" wide in the middle and enough fluid to cover but not puddle.

Once this spray pattern is achieved on the test cardboard, spray a thin coat onto the surface in a cross-pattern; "left to right", then "up and down". This will provide sufficient coverage and will help prevent holes in coverage. Desired wet film thickness (WFT) is approximately 3.0 to 4.0 mils. Only apply one coat.

When spraying outdoors, make certain there will be no rain for at least 5 hours after your anticipated completion time. If there is high wind, this will affect the quality of the finish as blowing wind can disrupt the spray pattern from your HVLP. It can also contribute to contamination of the finish with blowing dust. Take necessary precautions against natural elements.

To spray small pieces or tight locations you can use a "Preval" sprayer. This is a 6oz, disposable sprayer which is ideal for touch ups as well. Available in the paint department of major home improvement stores, or major paint store chains.

CAUTION

If using spray application method in an enclosed space, make certain to tent off the area being sprayed with plastic tarps to avoid spray dust from traveling and contaminating other surfaces with overspray dust. When working in an enclosed space, ensure excessive ventilation. Never spray near any open source of ignition such as pilot light flames, or anything that may spark, as this may cause ignition and explosion of the fumes and vapors.

Rolling

NanoTech Wood Coating is a 2 component product requiring PART#B CATALYST. When surface preparation is complete and surface is dry and free of dust, shake the container of NanoTech Wood Coating thoroughly as the nanoparticles will sink to the bottom. These need to be resuspended in order for proper performance of the coating. Pour the desired amount into a clean container large enough to allow for an equal amount of the NanoTech Coatings Catalyst to be added.

Pour an equal amount of the NanoTech Coatings Catalyst into the container with the NanoTech Wood Coating. Stir both components together thoroughly. Approximately every 15-20 minutes, re-stir to re-suspend the nanoparticles during the coating process. Use an ultra smooth, high-density white foam roller (available at most major home improvement stores). Pour the mixture into a roller pan and completely saturate the roller with the coating. Apply a liberal coat in a cross-pattern; "left to right", then "up and down" as quickly as possible because the coating dries fairly quickly. Do not press down on the roller; just lightly use it to spread the coating. Desired wet film thickness (WFT) is approximately 3.0 to 4.0 mils.

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Dry Time

Drying Time (@ 77 F, 50% RH):

Drying time is temperature and humidity dependent.

Touch: 1 hour

Through: 2-4hours

Dry: 24 hours

Full Cure: 7 Days

Interruption of Work

It is not advisable to stop application in the middle of a singular surface. If you need to stop, use a corner or visible joint so that the finish is as seamless as possible.

Clean Up

Clean tools thoroughly and flush equipment with acetone immediately after application (before product dries). Once the coating is dry acetone will not remove it.

Caution

Always wear OSHA approved 1910.134 and ANSI Z88 2 respiratory protection. Fresh air and exhaust are required in enclosed work areas. If inhaled, remove affected person to fresh air. Seek immediate medical attention if physical difficulties occur.

Wear butyl-rubber gloves and other skin protection to avoid contact.

In the event of contact with skin, wash skin thoroughly with soap and water. Chemical safety goggles or splash shields are required.

Do not wear contacts without eye protection. Immediately flush eyes with water for 15 minutes after contact and get medical attention. If accidentally swallowed, rinse mouth thoroughly, and obtain immediate medical attention.

Care & Maintenance

Wipe down with warm water or use NanoTech Coatings Safe Clean, then rinse with fresh water and dry. Always wipe up spills and standing water as soon as possible to properly care for the coating. Do not use abrasive cleansers or abrasive scouring pads. NanoTech Wood Coating does not require any waxing or protection. If coating is damaged simply sand with 220 grit sandpaper, tack cloth clean, and re-apply per application directions.

