



Technical Data Sheet

W-WB

Product Information

Nasiol W-WB is a water-based coating that has been developed for wooden surfaces to gain hydrophobic and oleophobic properties against common liquids and stains whilst giving easy-to-clean effect. The water-based formula ensures application to vast majority of surfaces especially for industrial usages.

Application Surfaces

- Absorbent, porous, natural wooden surfaces such as cottonwood, pinewood, teak wood, oak, spruce, walnut, etc.
- Wood-based surfaces such as chipboard, laminated floorings, panels, raw MDF, particleboard, etc.

Do not apply the product on surfaces including:

- Lacquered, Painted or Artificial Wooden Surfaces
- Thermosets & Thermoplastics
- Mineral Surfaces

Benefits & Key Features

- Water and oil repellency.
- Chemical resistance.
- UV protection.
- Breathable coating.
- Easy to clean.
- High coverage of wooden surface types

Instructions

Surfaces should be dry and free of any dust, oil, grease and other contamination.

Application should be made in a shaded and well-ventilated area.

Manual Application

*It is recommended to try on a small area before covering the entire surface.

- Spray the product onto the surface in the essential amount with a trigger bottle.

Pressurized Spraying

* It is recommended to apply it to the final product after the trials are made and the optimum parameters are found.

- Any type of spraying systems capable of applying homogeneously can be preferred. A nozzle diameter of 1-2 mm is suitable.
- The distance between the surface and nozzle can be chosen between 10-20 cm depending on the other parameters.
- Spraying pressure can be chosen between 1-1.5 bar depending on the other parameters.
- The product should be sprayed onto the surface in the essential amount with a fine atomization

Curing

Room Temperature Curing

Dry to touch: 6 h at 23°C - 50% RH

Fully curing: 24 h at 23°C - 50% RH

Accelerated Curing

It is possible to accelerate the curing process by applying heat by choosing the appropriate time and temperature according to the surface type.

Application Tips

Ensure that the temperature and relative humidity (RH) of the application space are as close as possible to the given values to achieve the highest product performance.

If the ambient temperature or relative humidity value is higher than the suggested



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intervals/values, the product may cure faster than expected.

Avoid direct sunlight during the application and only work on cool surfaces.

Shake the product gently before use.

Always test the product on a smaller area out of sight before working on larger areas to observe further effects and compatibility with material(s).

If product contacts with incompatible materials, wipe it off immediately with a dry and clean microfiber cloth.

Ventilate the space/interior well for following hours of application.

The surface should look homogeneous after the application.

Pressurized Spraying

If the surface seems excessively wet after the application, you can;

- Decrease the flow rate
- Increase the spraying distance
- Increase the spraying pressure
- Expand the pattern
- Increase the line speed

If you couldn't apply enough amount and couldn't obtain a good repellency, you can;

- Increase the flow rate
- Decrease the spraying distance
- Decrease the spraying pressure
- Narrow down the pattern
- Decrease the line speed

Curing

When the coated surface is dry to touch, it can be handled/packed. Fully curing process will continue.

Even if you apply a heat treatment to accelerate the curing process, keep the coated surface away

from water/contamination for 24 hours and don't perform harsh tests on it.

Specifications

Packaging	1-5-30 L
Appearance	Whitish Liquid
Chemical Resistance	11>pH>1
Dry Film Thickness	60-70 nm
Consumption per Unit Area	70-100 mL/m ²
Density @23°C	1.017 g/cm ³
pH Value	4-5
Breathability (EN 1062-1)	Category 1
Application Temperature	5°C-30°C (≤50% RH)
Temperature Durability	-
Water Contact Angle (Cottonwood)	153.6° @10 µL
Water Contact Angle (Pine wood)	151.2° @10 µL
Water Contact Angle (chipboard)	147.1° @10 µL
Water Contact Angle (Teak wood)	134.1° @10 µL
Water Sliding Angle (Cottonwood)	< 1° @60 µL
Water Sliding Angle (Pine wood)	13° @60 µL
Water Sliding Angle (Chipboard)	16° @60 µL
Water Sliding Angle (Teak wood)	31° @60 µL
Oil Contact Angle (Cottonwood)	80.4° @20 µL
Oil Contact Angle (Chipboard)	90.6° @20 µL
Oil Contact Angle (Teak wood)	90.4° @20 µL
REACH Compliance	Yes



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Durability

Up to 5 years

Storage

To achieve a high quality of coating, keep the containers tightly closed in a dry, well ventilated space away from heat and ignition sources, stored at 0°C to +35°C. The shelf life of product is 24 months from the date of production when stored in the unopened container under suggested storage conditions. After opening the container, it is recommended to use up the product within 1 month.

Disclaimer

The technical information described in this document is based on tests and other practical experience that Nasiol® believes are reliable. Nasiol® cannot guarantee anything but ready to use quality of the product at the time of shipment, disclaims any liability for product performance and incidental or consequential damages, according to self-implementation within the user's knowledge, beyond the manufacturer's control. Please refer to the Safety Data Sheet (SDS) before use of product.

Users should consult Nasiol® for guidance on the suitability of specific applications. Nasiol® reserves the right to change the given data without further notice.