



## WATER-REPELLENT WOOD

### **Presentation, technical sheet and instructions for use**

**Product description:** NanoProtection WATER REPELLENT for WOOD is a nanotechnology-based product designed to give (unprocessed) wood surfaces non-stick properties that prevent impurities from attaching to treated surfaces. The hydrophobic and oleophobic properties of the coating reduce the adhesion of impurities such as air pollution, dirt, grease, oil, greatly facilitating the cleaning of the treated surface: it is the effect "easy to clean».

### **Usage examples:**

- Garden equipment
- Sauna wood (untreated)
- Untreated wood floors
- Raw wood furniture and tables
- Cork materials

### **Product features:**

- Significant hydrophobia (contact angle > 120 °)
- Large non-stick properties
- Good effect "easy to clean", especially against atmospheric pollutants - Compatible in contact with food

### **Other properties:**

- Invisible to the naked eye (coating thickness: 100-150nm)
- No solvent, no smell
- Resistant to high-pressure washing (50-60 bar)
- Resistant for several years
- Simple application
- Reduction of mosses and mushrooms
- Extended life of the support (because less cleaning)
- Prevention against meteorological elements
- High chemical resistance: solvents, detergents do not affect the coating (except PH 13-14)

### **USAGE:**

**Application conditions:** Apply the product at temperatures between + 5 ° C and + 30 ° C. Do not treat in direct sunlight. Treat in small areas if temperatures are > 30 ° C. Do not treat below 0 ° C. The treatment should be applied under conditions of air humidity and normal temperatures. Contact with water and / or pollution on the surface to be treated will affect the quality of the treatment.



**Surface preparation:** The surface must first be free from all coarse and visible pollution. **IMPORTANT:** To ensure optimal results, it is imperative that the surface be perfectly clean before applying the treatment. For dirty exterior surfaces, we recommend carrying out high-pressure washing beforehand, rinsing well with clear water.

**Usage tips:** Shake well before use. Wearing gloves is recommended. After pre-cleaning, make sure the surface is thoroughly dry before applying the treatment. Spray evenly NanoProtection WATER-REPELLENT WOOD directly on the surface until saturation. For large surfaces, we recommend using a garden sprayer, and spread if necessary with a roller. The greater the amount of product used, the better the protection. Can also be done by soaking. Do not touch the surface, or get in contact with water or cleaning products during drying. The complete drying takes place after 24 hours. The hydrophobic effect can be tested before these 24h, after drying on the surface (pouring water, it must bead), the effect easy to clean can be tested after 24h (do not rub the surface during this time).

**Amount to use:** Between and 70 and 300ml / m<sup>2</sup>. This quantity depends on the porosity of the surface

#### **IMPORTANT :**

**Maintenance of treated surfaces:** The treated surface is very easy to clean with water because the dirt can no longer adhere, either with a pressure washer at a distance from the surface or at low pressure. The use of aggressive products is no longer necessary. If the hydrophobic effect can diminish over time, the easy to clean effect will last for the life of the treatment (as long as the surface is not damaged by abrasion). Duration of action: The treatment is active for several years under normal conditions of use and abrasion, and without using too aggressive products (high PH) to clean the treated surfaces. If the support is not damaged by abrasion, the treatment is permanent.

**BENEFITS of this product compared to other nano products on the market:**

- Permanence and longevity: UV stability allows the treatment to keep all its features for many years. Many competing products or other technologies are damaged by natural light.
- Abrasion resistance / easy to clean effect: a permanent chemical bond between the product and the treated surface provides excellent resistance to abrasion. Many competing products are easily altered by abrasion.
- Unlike thin-layer varnishes or other oils, NanoProtection WATER-REPELLENT WOOD does not change the appearance of the substrate. In rare cases, the color of the media may darken slightly.

**Storage:** Storage for 2 years in its original packaging without opening. Store in a place between + 5 ° C and + 25 ° C. Store away from sunlight. Close well opened containers.

#### **PHYSICAL AND CHEMICAL CHARACTERISTICS:**

Ph : 3-5.

Form : Liquid.

Odor : Almost odorless.

Color : Colorless to pale yellow.

**Hazardous Products Regulations:** WATER-REPELLENT WOOD is not subject to the reporting obligation according to the regulation on dangerous products. For further information, please also consult our safety data sheet.

These application recommendations are based on our experience and extensive research, however they do not release the user to test the product before an application. NanoProtection guarantees the quality of its products but expressly disclaims any liability in case of non-compliance by the user with the recommendations and conditions of use of the said products, in particular but not exclusively in case of lack of application, application by a unqualified personnel, use of products not compatible with NanoProtection products or poor weather conditions. We disclaim any liability for any use or application other than those specified in written form from us. For more information, Request MSDS Material Safety Data Sheet.