

## HydrophobNeo-W

Water Repellent Agent For Wood

HydrophobNeo-W penetrating water repellent composition is used to protect surfaces of building constructions and articles made of wood and wood-based materials (plywood, wood-chip boards, oriented strand boards and others).

HydrophobNeo-W unique composition improves water repellent properties of articles made of wood and wood-based materials:

- forms a water repellent layer within the material;
- preserves vapor permeability, allows wood constructions to breathe;
- prevents wood deformation and cracking;
- does not change wood natural color and structure;
- is produced without using dangerous for human health and environment antiseptics.

### Description

HydrophobNeo-W water repellent composition is designed to impart water repellent and frost resisting properties to building materials and protect from moisture saturation of building constructions and articles made of wood and wood-based materials (plywood, wood-chip boards, oriented strand boards and others).

**Composition:** Polyorganosiloxane, binding agent, solvent (isopropanol). Produced in accordance with the Technical Regulations 2229-002-73350653-2007.

### Uses

- ✓ Effective protection of wood constructions and articles from moisture penetration;
- ✓ Protection of decorative elements of wood constructions and wood articles from swelling, buckling and cracking;
- ✓ Effective hydrophobization of edges of wood boards which are used in manufacturing of bathroom, kitchen and other damp rooms' furniture;
- ✓ Use in preservation and restoration of wood articles;
- ✓ Prevention of wood deterioration;

- ✓ Protection from moisture penetration as an additional (finish') treatment of wood constructions and articles.

### Packaging

Two component packaging of 1,321 Gallon (5 Liters) net volume (two containers in one packaging).

### Features and Benefits

Surfaces treated with HydrophobNeo-W have water-repellent and frost resisting properties. They become resistant to atmospheric precipitation.

HydrophobNeo-W water repellent agent does not form a film – it penetrates the surface to form a water repellent layer within the material to reduce moisture penetration. The product keeps the gas permeability of treated surfaces: material breathes. The HydrophobNeo – W composition has no colour; does not change the pattern and colour of treated surfaces. After drying the coating is harmless for men and animals. Wood articles treated with the composition are protected from water penetration, so they become resistant to swelling, buckling and cracking.

When used outdoors treated surfaces keep water repellent effect for about 8 years. Durability of the coating is approximate and may vary depending on types of wood, wood texture, wood board properties, climatic conditions, etc.\*

\*When applied to surfaces with pre-existing defects (chips, cracks, scratches, etc), when applied to wet surfaces, when applied to horizontal surfaces, when applied without following the application manual the service life of the coating is reduced.

### Consumption

1,321 Gallon (5 liters) / Coverage area: 250 to 450 Sq. Ft. (23 to 42 sq. meters), depends on surface. Consumption is approximate and may vary depending on types of wood, wood texture, wood board properties, climatic conditions, etc. Always apply to a test area first to determine actual consumption before general application.

### Technical Data & Physical Properties\*

	Property	Test Data
1.	Appearance, odour	Low viscous transparent colourless liquid with alcohol odour
2.	Density at 20 °C	7.26 - 7.59 lb/gal (0,870 – 0,910 g/cm <sup>3</sup> )

3.	Decrease of water absorption of wood-chips board samples being submerged in water for 2 hours	In 10 times or more
4.	Penetration depth	1/8 In. ( $\geq 2$ millimeters)
5.	Consumption	190 – 340 ft <sup>2</sup> /gal (4,6 – 8,4 m <sup>2</sup> /L)
6.	Freezing point	< - 75°C (-103 °F)

\* According to TR 2229-002-73350653-2007

### Directions for Use

The HydrophobNeo-W composition is supplied in the form of two solutions (two component packaging). Before using the solution №2 is poured into the solution №1 followed by good mixing (shaking), after this the composition is ready to use. The mixed composition may be stored for several weeks in the closed (but not hermetically) container. The application and drying works should be held in well aired rooms or at open air. Air temperatures should be a minimum of 32°F and a maximum of 95° F during the application. Do not apply to frozen or frost covered surfaces. Do not apply to surfaces when it is raining or snowing.

Application must be to clean, dry to slightly damp surfaces. When applied to wet surface the penetration depth of the composition decreases drastically. The “HydrophobNeo – W” composition gives the best water-repellent properties when used for well dried wood. Remove dust, dirt, oils, efflorescence, wax, coatings or other foreign matter that might block or interfere with product penetration. It is not recommended to be used to protect surfaces treated before with drying oil, lacquers, paints or another film forming compositions. Any treatment with non film forming compositions (mordants, fire retardants, antiseptics) should be held before waterproof treatment. When applied to surfaces used outdoors it is recommended that wood surfaces be preliminary treated with colorless water based antiseptics.

Always perform a **test application** to a small area of surface for proper penetration on each type of surface before starting full-scale application to determine suitability and final appearance.

The composition is applied in one layer by brush, applicator roll, sponge or sprayer in amount enough to wet the surface but without runs. Excess of the composition should be removed. The treated articles should be conditioned for several hours (at room temperature), after this they are ready for use. At lower temperatures the conditioning time increases. Drying time: two to six

hours, depending on temperature and humidity. Optimum water repellency is developed within 24 hours. Protect surfaces from rainfall for 24 hours following treatment.

Consumption is 0.1 – 0.25 L/m<sup>2</sup>. Increasing of the amount of the applied composition does not improve the water-repellent properties but lead to formation of rubberlike film at the wood surface.

Treated surfaces may be painted a week later, if it is necessary. It is recommended that the treated surfaces be wiped with a wet cloth or be washed with clean water in 1-2 days before further treatment.

**NOTE: The HydrophobNeo-W water repellent composition cannot completely substitute the antiseptics! Treated surfaces may be painted with an oil-based or alkyd based (not a water-based!) paint. Testing is always necessary to ensure adhesion and compatibility. Prevent from being spilled or over sprayed onto glass surfaces. If being spilled onto glass surfaces remove the composition with a dry or wet cloth.**

### Precautions

Keep out of reach of children. Read label before use.

1) Contains isopropanol (highly flammable liquid). Keep away from heat, hot surfaces, open flames, sparks. No smoking during use. Keep container tightly closed. Keep cool. Avoid breathing dust, mist, spray, vapors. Use only outdoors or in a well-ventilated area. Alcohol odor completely disappears in 24 hours.

2) Composition application should be held in protective glasses (chemical splash goggle) and gloves (plastic or rubber). When sprayer is used respirator is needed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke during use.

3) After drying the coating is harmless for men and animals.

4) First aid measures: for skin contact - remove affected clothing and wash all exposed skin area with mild soap and water; for eye contact - immediately flush eyes thoroughly with water for at least 15 minutes, obtain medical attention if necessary; after inhalation - move to fresh air as quickly as possible, consult a physician if necessary; after ingestion - rinse mouth, obtain emergency medical attention.

For additional information for this product, refer to the Safety Data Sheet available at [hydrophobneo.com](http://hydrophobneo.com).

### Storage

When stored in original, unopened containers, the warranty storage time is 2 years of date of manufacture (see the package). During the composition storage influence of increased temperatures /over +35°C (+95°F)/



## HydrophobNeo-W Water Repellent Agent Product Data Sheet

Date of issue: 11/01/2016

Date of revision: 09/11/2019

---

and direct sunlight should be excluded. The composition does not freeze at temperatures down to minus 75°C (-103°F).

### **Responsibility and Limited Warranty**

The manufacturer warrants at the time and the place of shipment the water repellent agent will be of good quality and will comply with the Technical Regulations 2229-002-73350653-2007. The product quality will be confirmed by the Quality Certificate, which is issued to each batch of the product. However, the manufacturer cannot control the use of the product by others, and therefore does not give any guarantees of results and does not assume any obligations or responsibilities in connection with the use of the product without prior research or approval. It is recommended that the products be tested to determine if suitable for specific application. Responsibility remains with the architect, engineer or contractor, as well as, owner for the design, use and proper application of the composition. Customer and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.