

Product Sheet OrganoWood® Protection 01



Product Description

OrganoWood® Protection 01 is a water based wood treatment product composed of silicon minerals and natural plant compounds. It's intended usage is for surface treatment of absorbing wooden products such as solid wood, particleboard, MDF-board, plywood and masonite board. It protects the treated wood against rot-fungus and also gives flame retardant properties to the treated material. Together with OrganoWood® Care 02, a complete protection system is created which further increases the life time of the wood, counteract damage by damp and superficial growth, as well as keeping the surface neat and fresh for a longer period of time.

OrganoWood® Protection 01 is easily absorbed when applied to the wood material where it hardens during the drying process. OrganoWood® Protection 01 is fixed inside the wooden material thanks to its unique formulation which changes its properties during the drying process and binds it to the fibers. When the drying process is complete a physical barrier of silicon molecules has been formed around the fibers making the wood unrecognizable as food for rot fungus as well as increasing the flame retardant properties.

OrganoWood® Protection 01 is completely free from organic solvents and heavy metals such as copper, chromium and arsenic (CCA's). The product is transparent and will not discolor the treated material. The treated wood will therefore keep its natural color but age and adopt a silver grey nuance with time. Besides, wood treated with OrganoWood® Protection 01 is not classified as hazardous material which is a big advantage from a recycling point of view.

Application

Absorbing wood such as pine and fir. However, the product should not be applied on wood with low absorbing capacity including timber from most hardwood. These may change color after treatment.

Treatment Instructions

Non-treated wood, new or old, shall be cleaned with a wood cleaning product before application. Oiled, painted or in any other way surface treated wood shall be grinded before application.

The surface of finished OrganoWood®-treated wood shall be treated with OrganoWood® Care 02, except at cut sections where OrganoWood® Protection 01 also shall be applied.

Perform the treatment on dry wood in at least 10 °C and when there is a small risk of rain, dew or frost. The liquid could react with glass, therefore cover the glass if there is a risk for contact between the liquid and the glass.

OrganoWood® Protection 01 treatment (consumption approx. 1 liter/8-10 m²)

1. Pour desired amount of liquid in a separate plastic container.
2. Apply the product in the direction of the wood fibers with a brush or roller.
3. Let dry for 6-10 hours.
4. Possible excess liquid on the wood may cause white salt precipitations. These may easily be brushed

away using a nylon or steel brush, alternatively sand paper before continued treatment.

5. Finish the treatment with *Dirt and water protection*.

Tests and classifications

Wood treated with OrganoWood® Protection 01 has good flame resistance properties and will obtain an increased resistance to fungal decay. The products flame resistant properties has been tested in the European test EN13501-1 and has by using surface coating (by dipping) on spruce panel (21×95 mm, 0,33 l/m²) obtained the reaction to fire classification Cs1,d0 in third party tests performed by Swedish SP – technical research institute of Sweden. Several other official tests (ISO 5660) has been performed by SP on spruce and pine, showing the efficacy of the flame retardant properties of the product.

Even though most materials will perform according to standard, there exist almost an infinite number of wooden materials. Therefore, no guarantee can be given, except for the material specified in the classification report (Cs1,d0) from SP, as whether the treated material will perform in the same manner as other material. For classification of materials outside these limits, other tests must be performed. For more information or aid with testing, please contact OrganoWood AB.

Post Treatment

Wood treated with OrganoWood® Protection 01 and OrganoWood® Care 02 will keep its beautiful natural. The wood will age naturally and become silver grey with time.

Due to the dense structure which has been created on the wood surface, conventional paints cannot penetrate the wood in the same way as on normal wood. Thus the bonding between the paint and the wood fibers gets worse. OrganoWood®-treated wood shall therefore not be painted with conventional paints. We are currently working with development of an environmentally classified paint system which is adjusted for OrganoWood®-treated wood.

Cleaning of Equipment

After using OrganoWood® Protection 01 all equipment should be cleaned properly with water. Equipment, in particular pipes, spraying nozzles, and brushes may be clogged if not cleaned properly.

Important: If the product is used in equipment which has previously been used for other chemicals, always clean and remove these chemicals from pipes, spraying nozzles, and brushes in order to not cause any problem.

QUICK FACTS

Physical form: Liquid, water
Color: Transparent, colorless
pH: 10 - 11

Odor: Odorless

Density: 1.2 - 1.4 g/ml

Dilution: Shall not be diluted

Storage and stability: Should be kept in closed containers in 15 - 30 °C. If stored properly, the product is stable for several months.

Ingredients: Silicon compounds, organic catalysts

Environment: Does not contain any substances classified as environmentally hazardous. Judgement B by SundaHus and recommended by Byggarubedömningen. The products are registered in the BASTA-register.

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The information in this product sheet consists of guidelines from the OrganoWood® Protection 01 Safety Data Sheet, OrganoWood AB test results, accumulated knowledge, and experience with the product. The information is not to be used as basic data or verification for other tests or systems. OrganoWood AB does not take responsibility for any other usage areas or any misuse of the OrganoWood® Protection 01 product. The latest edition of this product sheet is available on OrganoWood AB's website: www.organowood.com.