

Woodbliss

Wood protection

Produced according to patented method

Without insecticides or fungicides

International test certificates in hand

Wood reinforcing

Free of emissions – and therefore applicable in areas concerning food , allergy sufferers, sick persons, children and animals (e.g. bees or stables).

Reduces existing noxious emissions – **Woodbliss** produces no emissions on its own

Product

Solvent-free, water soluble wood protector on the basis of renewable raw materials.

Contents

WB 1 consists of mineral and vegetable substances like potassium carbonate, silicate solution, cellulose, lignine and starch.

Purpose

1. to protect wood against fire, termites, fungus and insect attacks
2. to protect wood in the case of a fire against the spreading of the fire and also against development of smoke
3. to work effectively against already attacking insects and fungus.

Areas of application

1. any wood under roof
2. any wood outside (an additional water protection is necessary)
3. rooms or places usually frequented by allergic sufferers, sick people and/or children
4. in the vicinity of animals (e.g. bees)

Mechanism

As soon and as far as **Woodbliss** penetrates the wood it withdraws the food for the insects, fungus etc. living in it. The wood is disguised, and therefore, the insects, fungus etc. do not recognize the wood as a food source any more, they simply depart. **Woodbliss** fills the ducts and immobilizes the insects inside.

Woodbliss fills any hole and cavity in the wood due to its mass and high specific weight. The result is the strengthening of the rotten and fragile timber, because the lost bulk material, that has been destructed by parasites or fungus, is replaced by **Woodbliss**.

We stress the fact that the effect of **Woodbliss** will not be diminished in the course of time – as it is the case with common (toxic) wood protectors – but strengthened by its special active mechanism.

This unprecedented active mechanism is based on an international patented method and it is not restricted to special insects or fungus. It was tested and documented for termites as stated by **Mississippi Forest Product Labs**. (this has also been confirmed by a another termite test carried out in **Costa Rica**), for wood-destructing insects called Hylotrumpus bajulus (timber jack) as stated by **EN (European Norm) 46** and for wood-destructing fungus Basidomyceten as stated by **EN 113**, carried out by **EMPA, St. Gallen, Swiss**. It work equally effective against dry rot timber.

Woodbliss is a first-class fire protector, it ranged Class A tested by **Underwriters Lab., Santa Clara** and has also been tested in this connection by **EMPA, St. Gallen**, carried out by our Swiss partner. Their trade name for **Woodbliss** is Ecosan.

Woodbliss is acting as a barrier against emitting harmful substances. It reduces noxious emissions of already contaminated timber, like those formerly treated with biocides, such as Lindan or DDT (reduction of 50%) and PCP (reduction of about 70%). In contrast to other products, **Woodbliss** produces no emission on its own. (See test of **University of Hamburg/Harburg**, carried out by our German partner **Hasit**. Their trade name for WB 1 is Hasil-Hozschutz).

WB 1 can also be used against dry rot in brick walls. This is just about to be tested at **BAM, Bundesanstalt für Materialprüfung** (federal agency for the testing of materials) in **Berlin**.

Woodbliss units several qualities in one single product

1. there is no need to pre-treat resins or other substances like oil
2. it protects and works against insects, fungus and dry rot in timber
3. it even works against termites
4. it has a very powerful preservation effect and strengthens destructed wood
5. it provides a very effective fire protection
6. it does not contain any noxious or artificial (synthetic) substances. There is no damage to health or environment when applied.
7. it reduces noxious emissions of harmful substances of already contaminated timber, like those formerly treated with biocides.
8. It produces no emission of its own.
9. it also works effectively against dry rot in brick walls.

Application

- after attacks by insects and/or fungus

Woodbliss diluted with water, 1:3 (1 part of **Woodbliss**, 3 parts of water)
two coats
depending on the severity of the attack pretreat with **Woodbliss** concentrate

- as a termite protection
Woodbliss diluted with water, 1:3
two coats (*according to Mississippi Forest Products Laboratories*)
- as a fire protection
first coat: **Woodbliss** diluted with water, 1:3
second coat: **Woodbliss** concentrate (*according to Underwriters Laboratories, USA; EMPA, Swiss*)
- as a fire retardent
Woodbliss diluted with water, 1:3
two coats
- as a reducer of emissions
Woodbliss concentrate
two coats (*University of Hamburg/Harburg*)

Woodbliss can be painted, rolled-on or sprayed on or can be dipped.

Special treatment with deep attacks of wood-destructing insects like *Hylotrupus bajulus* (Holzbock)

Locate the attacked areas with a stethoscope.. Inject **Woodbliss** concentrate with the means of a commercial hypodermic syringe and a long canula into the ducts of the insect or drill holes of at least 2-3 mm diameter to the centre of the timber at regular distances of 3 cm. It is essential that **Woodbliss** reaches the attacked areas.

With works above your shoulders (ceilings) seal the holes with wax or the like before injecting **Woodbliss**. When finishing decorative coats are desired, remove the wax before applying those.

If the attack is quite extensive, we recommend to remove old coatings and apply a **Woodbliss** dilution; 1:3 (1part of WB 1 and 3 arts of water) to hinder further hatching.

Application to solidify the timber

Particular insects and fungus eat their way through the wood. This leads to a loss of mass and stability. **Woodbliss** fills the ducts, solidifies crumbling wood (dry rot wood) and replaces lost wood mass. Therefore, the intensive restoration costs or the demolition of a wood structure can be avoided.

Attention: protect adjacent glass and metal parts – as usual. Immediately remove inadvertently applied **Woodbliss** with a wet cloth.

Woodbliss emission-free wood protection

Treatment

Preparation

Dirt, water repellent substances and old paint coats have to be removed.

1. Treatment with the 1:3 dilution

- 1 part of **Woodbliss** is mixed with 3 parts of water (mix the concentrate thoroughly prior to taking only a part of it)
- Paint, roll on, spray or dip once. Let it dry out until the water is completely evaporated. According to necessity repeat the procedure.

2. Treatment with the concentrate

- Mix **Woodbliss** concentrate thoroughly
- Apply **Woodbliss** by the means of painting, rolling-on, spraying or dipping. All parts of the wood have to be covered.
- Different pieces of the treated wood should not come into contact during the drying process, as they would stick together.
- The drying process is completed when the surfaces does not feel sticky anymore.
- According to necessity repeat the procedure.
- In the case that a white film appears on the surface after the treatment, brush or scratch it off with suitable tools like root brush, spatula etc. (**WB 1** has the rare characteristic that it binds solvents and/or other chemical of former coatings in a white film on the surface. By removing this white layer, you remove remainders of solvents, oil and resin pollutions etc.).

Woodbliss does not contain any toxic substances.

It only evaporates water.

Woodbliss is food-safe and harmless to bees.

Distribution Portugal and Spain:

www.embarro.com