

# Natural Wood Stain:

## ECO2PROTECT

# Natural Protection of Grafts and Pruning injuries:

## ECO2GUARD



produced and distributed by  
Xpert4growth Bvba  
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[www.xp4g.com](http://www.xp4g.com)

# Applications

- **ECO2PROTECT**

- is made up of **natural** components dissolved in acetic acid.
- **This Stain is intended to protect untreated wood**, when it is important to respect for ecology, for example:
- Nest boxes, Hives, Garden furniture.
- All other wooden surfaces can also be protected after preparation.
- It is delivered in can of 1 liter of solution. This volume has to be diluted with ½ L of water by the user.
- **Covered area: +/-20 m2** (depending on the porosity of the wood).

- **ECO2GUARD**

- is made up of **natural** components dissolved in acetic acid.
- This preparation is intended to **protect grafts and pruning injuries**, when it is important to have respect for ecology.
- It can be applied with a brush or sprayer.
- It is delivered in can ready for use.

# Properties and Instructions.

The product has **no adverse effects on human or animal health, groundwater** or any unacceptable influence on the environment. Classified as non-hazardous according to EC 1272/2008. (See instructions before use.)

It has **fungicide and bactericidal** properties and protects the wood from **moss formation**.

The protection is not caused by a film but by a **reaction between the product and the cellulose of the wood** up to a few mm deep, depending on the porosity. Wood has to be free of each traces of paint or oil.

Before recycling the package, rinse it with water. This water can be poured on the soil between plants, since this product is good for improving plant vigor.

The product contains no chemical solvents and is not flammable.

## **ECO2PROTECT**

Shake well before use.

For a new surface: remove dust and treat.

For a renovation: after cleaning thoroughly with a pressure and light sanding if necessary, apply the product with a brush. The surface must not be completely dry before application. Apply a second layer after 24 hours.

After use, close the can tightly and keep away from light.

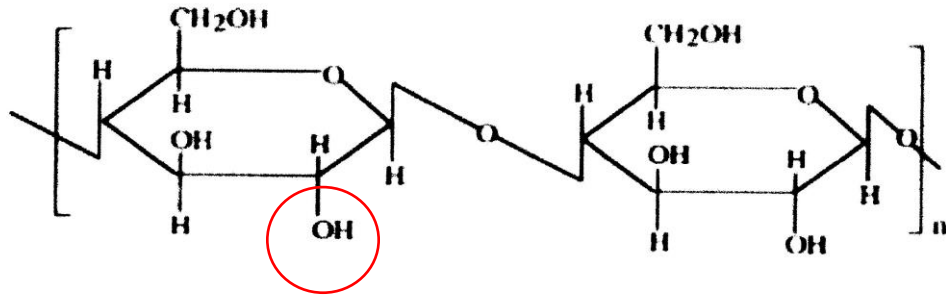
## **ECO2GUARD**

Shake well before use.

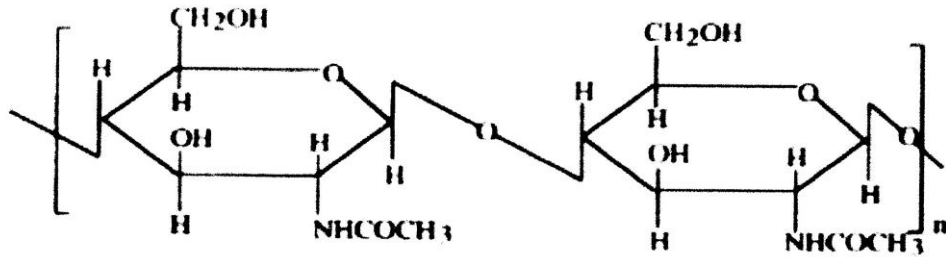
Apply on wood **before** grafting, treat the wounds immediately **after** pruning. Clean old wounds with a brush before treatment Wait 4 hours before an additional application.

After use, close the can tightly and keep away from light.

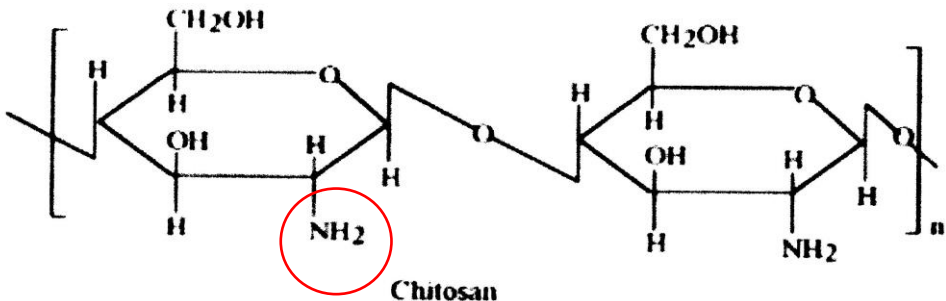
## How does it work?



Cellulose



Chitin



Chitosan

**ECO2PROTECT** and **ECO2GUARD** are made from Chitosan. Chitosan has a molecule very similar to that of Wood Cellulose, which allows it to react easily as described below:

The pores of the wood are closed, and the surface becomes water-repellent but the respiration of the wood is not altered.

The surface is protected from attacks by fungi and bacteria. The protection is not a film on the surface of the wood, but is caused by a "**merging**" of the molecules of Cellulose and Chitosan, and this up to a few mm deep depending on the porosity.

The Chitosan used is a product allowed in organic farming.

Chitosan is a naturally occurring product that is already used for water purification, agriculture and soil remediation.

**ECO2PROTECT** and **ECO2GUARD** are composed exclusively with natural components.

Authorized in  
Organic Agriculture  
CE 889/2008



**LIST OF "BASIC SUBSTANCES" ALLOWED IN ORGANIC AGRICULTURE**  
*("Basic substances" allowed in organic agriculture are indicated in green; conditions for use apply)*

Number	Common name, identification numbers	Fulfilling the criteria of Annex II to Regulation 889/2008	Use
1	<i>Equisetum arvense L.</i>	YES	Use as fungicide approved (see Appendices I and II of <a href="#">SANCO/12388/2013</a> for specific conditions).
2	Chitosan hydrochloride	YES	Use as fungicide and bactericide approved (see Appendices I and II of <a href="#">SANCO/12388/2013</a> for specific conditions).

# Three years after treatment with **ECO2PROTECT** !

