



## Frequently Asked Questions

### **What is Rotstop C?**

Rotstop C is a stump treatment used to protect freshly cut stumps from Heterobasidion (also known as *Fomes* or *Annosum*) Root Disease (HRD). Rotstop C is a biological fungicide that contains spores of the naturally occurring wood decay fungus, *Phlebiopsis gigantea*. Rotstop C is a wettable powder that is applied as an aqueous mixture.

### **Is Rotstop C registered in the United States?**

Rotstop C is registered by the EPA (EPA Registration Number: 64137-12) in the following states; Alabama, Florida, Georgia, Michigan, North Carolina, South Carolina, Virginia, and Wisconsin. Additional state registrations pending approval.

### **Is Rotstop C effective?**

Rotstop formulations have been proven to be very effective in protecting conifer plantations from HRD in Europe for over 30 years. Numerous field studies in Europe and North America and years of operational application have demonstrated very high efficacy (in some studies up to 90% effectiveness) of *Phlebiopsis gigantea* in preventing HRD.

### **What are the benefits of using Rotstop C?**

Benefits of using Rotstop C include:

- Incorporating Rotstop C into conifer plantation management can maximize productivity by preventing tree growth loss and mortality and provides assurance that conifer assets are protected from HRD.
- According to peer-reviewed research, *Phlebiopsis gigantea* poses no risk to living trees or agricultural crops, making Rotstop C an ideal treatment option to help sustain forests for future generations<sup>1</sup>
- Peer-reviewed research also confirms that *Phlebiopsis gigantea* naturally decomposes dead wood, aiding in the decay of freshly cut stumps<sup>2</sup>. Other treatment options, such as borate products, act as a wood preservative, increasing the time it takes for a stump to naturally decompose.
- Rotstop C comes in pre-measured packages that are poured into 1 or 5 gallons of water, depending on the amount needed for the day
- Rotstop C is a low-cost control option, comparable to other stump treatments available

### **What package sizes does Rotstop C come in?**

The following package sizes are available in the US:

- 0.13 oz. package yields 1 US gallon
- 0.67 oz. package yields 5 US gallons

### **Where can Rotstop C be purchased?**

Rotstop C is distributed by BioForest. Orders can be placed by contacting the Order Desk at [order@bioforest.ca](mailto:order@bioforest.ca) or by phone at 1-888-236-7378.

### **Does Rotstop C need to be vigorously agitated to dissolve?**

Vigorous agitation is not needed. Rotstop C comes in pre-measured packages that, after being mixed with a small amount of water to form a slurry, are poured into 1 or 5 gallons of water. Gentle mixing is sufficient to disperse the *Phlebiopsis gigantea* spores in the water.

### **Can dye be added to Rotstop C to better observe coverage?**

Dye can be added to the mixture to observe treatment coverage. Blue dye can be purchased from BioForest.

### **Will Rotstop C freeze in colder temperatures?**

During cold times of the year, if the temperature is expected to rise above 40°F anytime during the two weeks after felling, Rotstop C should be applied if possible. Because Rotstop C is mixed with water, applying it in very cold weather may not be possible because the product might freeze in the lines of the spray system. However, under these conditions, adding propylene glycol (not ethylene glycol) to the mixture (i.e. 13 fluid oz. /gallon) can prevent freezing to 27°F without reducing the efficacy of Rotstop C, if used the same day.

### **How many stumps can be treated with 1 gallon of Rotstop C?**

When applied to the point of wetness and depending on the accuracy of the application, 1 gallon of Rotstop C can treat approximately 210-250, 6-inch diameter stumps or up to 48 sq. ft of stump surface, when applied with a backpack or hand-held sprayer. Refer to the product label for manual and mechanized application rates.

### **When should Rotstop C be applied after felling?**

It is recommended to apply Rotstop C immediately after felling to ensure Heterobasidion spores cannot infect freshly cut stumps.

### **What is the storage and shelf-life for Rotstop C?**

Unopened packages can be stored up to 12 months in a cool (below 46°F), dry place and up to 18 months when frozen (0°F). Packages taken from cool conditions and thawed to room temperature must be used within one month. Rotstop C contains living fungal spores and should not be exposed to temperatures above 100°F in order to ensure maximum efficacy. Use open packages within 24 hours.

### **Who can be contacted for more information about Rotstop C?**

For more information, please contact BioForest's technical support at [support@bioforest.ca](mailto:support@bioforest.ca) or 1-888-236-7378. The Rotstop C label, SDS and other product information can be obtained at [www.BioForest.ca](http://www.BioForest.ca).

<sup>1,2</sup> Dumas, Michael T., and Gaston Laflamme. "Efficacy of Two *Phlebiopsis gigantea* Formulations in Preventing Heterobasidion Irregular Colonization of Red Pine Stumps in Eastern Canada." 93.1 (2013): 25-31. <http://id.erudit.org/iderudit/1018887ar>. érudit, 18 Feb. 2013. Web. 9 Sept. 2016.