

## WHY CHOOSE COBRA™ ROD?

During a normal test and treat program Cobra™ Rods can be inserted into the drill holes to establish a treatment for the inner portion of the pole. Once inside the pole the boron-copper formulation is ready to do it's work. When the moisture level increases to the point of causing decay, the Cobra™ Rods begin to dissolve and diffuse with the moisture. This process of using the moisture as the delivery method ensures that the preservative is exactly where it is needed. The mobility of this material, when contained within the pole, is a key in its long-term effectiveness. Cobra™ Rods are made entirely of boron and copper, which means that what you are placing into the wood is >99% active ingredient and not a diluted formulation. These two long used, heavily studied, naturally occurring preservatives are each effective on their own. Boron is very effective against the family of fungi which attack the inside of wood while Copper works better to control the family of fungi which attack the outer surfaces of wood. Together, when formulated properly, they have been found to provide decay control greater than either copper or boron can achieve on their own. Boron is extremely mobile when water is present while copper has more restrictive slower movement within the wood. In the Cobra™ Rod system the boron wants to go where the moisture goes, the copper slows it down for longer lasting, more consistent treatment. The relationship between copper and boron when fused together is a true "synergy" system where the total combined effectiveness of these preservatives far exceeds the effectiveness of either preservative alone. Cobra™ Rods have been in use all over North America for over 15 years in utility poles as well as in log homes, fences, decks, barns and more. They have been analyzed in studies from Hawaii, to Louisiana, Quebec and all over North America. Their effectiveness has been evaluated by many large established utilities on their in service poles.

Cobra™ Rods work.



### Cobra™ Rod (Post Guard Rod)

4x1/2" rods: pail-500 #20009; (post guard)  
50pack #20310, 6pack #27214

(post guard) 2x1/2" rods: box-100 #20097;  
box-50 #20095; 10pack w/ rods #20304

(post guard) 1x1/3" rods: 25pack #20011

3x1" rods: pail-250 #20059; pail-100

### Cobra™ Plug

11/16"x1 3/4" plugs: box-1000 #30649

13/16"x1 7/8" plugs: box-1000 #30669

9/16" x1 5/8" plugs: bag-50 #30623; bag-  
100 #30625;

15/16"x2" plugs: bag-100 #30685; box-1000  
#30681



27717 Acheson Rd.  
Acheson, AB  
Canada T7X 6B1  
T: 780.962.1000  
F: 780.962.1052

[www.genicsinc.com](http://www.genicsinc.com)

[email:sales@genicsinc.com](mailto:sales@genicsinc.com)



COBRA™ ROD

Adding years of life.

Wherever wood is used.™



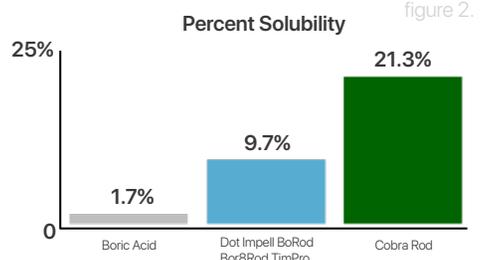
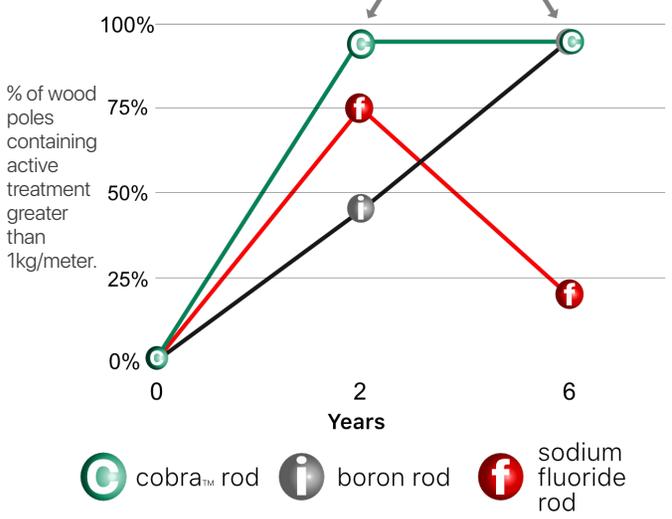
### Genics Cobra™ Rod

- Industries highest load rates.
- Quick diffusion.
- Worker/environment safe.
- Long lasting impact.
- Cost effective.

### INDUSTRY LEADING

figure 1.

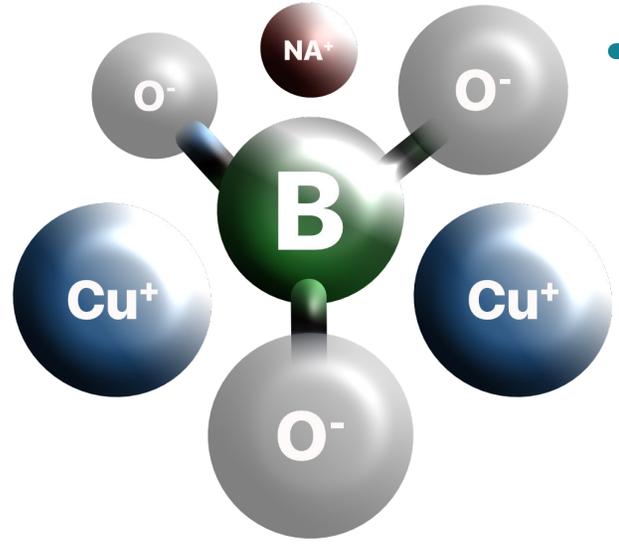
2008 study from Hydro Quebec shows that cobra™ rod diffuses its decay fighting ingredients into the wood faster than any other rod on the market. And will continue to provide decay fighting power to your wood well after the 6 year mark.



Example: 27g of cobra rod will dissolve in 100ml of solution (water) at room temperature, while only 10.7g of straight boron product will dissolve in the same amount of water.

### WHY ARE COBRA RODS SO EFFECTIVE?

### COPPER BORATE SYNERGY



### SYNERGY EXPLAINED

Synergy (noun): the interaction or cooperation of two or more organizations, substances, or other agents to produce a combined effect greater than the sum of their separate effects.

Individually both copper and boron are recognized and proven biocides. They are both used independently as effective stand-alone treatments. Carl Bechgaard, Dr. Peylo, and Ryan Smart have all documented, in scientific literature, that borates control Brown and White rot very well. They have all documented independently that 1kg/m<sup>3</sup> (minimum load rate) of Boron will control decay fungi (brown and white rot). However, boron has difficulty with Ascomycetes (soft rot). Thus the need for copper which controls soft rot, mold and stain fungi at 0.3kg/m<sup>3</sup>.

Boron is effective at <1kg/m<sup>3</sup> Copper is effective at 0.3kg/m<sup>3</sup>. Together, Synergy. (See figures 2,3).

figure 3.

Starting Powder Potency			Cobra™ Rod Potency	
Cu(OH) <sub>2</sub>	1.0	→	Cu(OH) <sub>2</sub>	1.23
DOT	1.2	→	Anhydrous DOT	1.45
Boric Acid	1.0	→	Boric Oxide	1.78
2.9% Cu(OH) <sub>2</sub>				
7.1% Boric Acid				
90% Disodium Octaborate Tetrahydrate				
100% Cobra™ Rod				