

Borate Wood Preservatives

Armor-Guard®

Soluble Borate Powder

Armor Guard is a borate powder that is dissolved in water for use. Add *Armor-Guard* to water in pail or bucket, stir until the solution is clear and apply with a low pressure sprayer. *Armor-Guard* protects un-infested wood from wood decay and wood destroying insects.

Like all borate treatments, exterior surfaces should be protected with one of our *Lifeline* exterior finish systems. *Armor-Guard* stays near the surface and we recommend that it be reapplied if the finish system is physically or chemically removed.



Surface Preparation:
Must be applied to clean and dry bare wood.

Application Rates:
Approx. 200 sq.ft. per gallon of mixed solution. A 17 lb. pail covers approx. 3400 sq.ft.

Application Temperature:
40° F to 90° F

Application Methods:
Low pressure sprayer.
Drill and inject.

of Coats:
1 coat application. Mix 1 pound (4 cups or 2 of the enclosed scoops) of powder with one gallon water for use.

Drying Time:
1 to 3 days.

Clean up:
Soap and water.

Packaging:
1 lb. bag.
17 lb. pail.

Storage/Shelf Life:
Keep dry.
5 years.

Shell-Guard® Concentrate

Borate Wood Preservative Concentrate

Shell-Guard Concentrate is a combination of glycols and borate that must be mixed an equal volume of water for use. The diluted solution is applied to bare wood and impregnates the wood fibers with the active borate ingredient eliminating and providing protection against wood decay fungi and wood consuming insects.

Like all borate-based wood preservatives the diluted *Shell-Guard* solution must be applied to unfinished bare wood. One application of diluted *Shell-Guard Concentrate* is permanent when exterior wood surfaces remain protected with one of our *Lifeline* exterior finish systems.

Surface Preparation:
Must be applied to clean and dry bare wood.

Application Rates:
1 gallon of diluted solution to 108 sq.ft. of wood surface area.
1 gallon of concentrate covers 215 sq.ft. of wood surface.

Application Temperature:
40° F to 90° F

Application Methods:
Low pressure sprayer.
Drill and inject.

of Coats:
1 coat application.
Mix 1:1 with water for use.

Drying Time:
2 to 3 weeks. Wash surface with *Log Wash* before applying finish.

Clean up:
Soap and water.

Packaging:
1 gallon container.
2.5 gallon container.
5 gallon carton.

Storage/Shelf Life:
Freeze/thaw stable.
5 years.



Cobra™ Rods

Cobra Rods are a way to spot treat decay prone areas such as log ends that are already coated with a finish. Once inserted into damp or wet wood the borate/copper complex in *Cobra Rods* dissolves spreading the active ingredients into areas surrounding the rod. This eliminates active decay fungi and helps prevent rot for 8 to 10 years.



Cobra Rods are 7/16" in diameter and two inches long. A 1/2" diameter drill bit is used for installation. The installation holes may be plugged with the accompanying plastic plugs and hidden with *Energy Seal*. A typical six to eight inch round log end will require two 2" long *Cobra Rods* inserted within 4 inches of the butt end.

Cobra™ Rods are a trademark of Genics Inc., Canada

Washington 1-800-548-1231; Tennessee 1-800-548-3554; Montana 1-800-479-7090;
Minnesota 1-877-244-6548; Colorado 1-800-433-8781

www.permachink.com

**PERMA-CHINK
SYSTEMS, INC.**

SPECIMEN LABEL

GENICS Cobra™ Rod

US EPA Reg. No. 71653-2

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

If in Eyes: Flush with plenty of water and call a poison control center or doctor for treatment advice.
If on Skin: Wash with plenty of water and soap. Call poison control center or doctor for treatment advice.

If Dust Inhaled: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.

Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container label with you when calling a poison control center or doctor.

Storage and Disposal

Store out of reach of CHILDREN

Do not contaminate water, food or feed by storage or disposal.

Storage: Store in a dry location at all times, out of the reach of children and out of contact with food and feed.

Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Package Disposal: Dispose of empty packaging in a sanitary landfill through ordinary trash collection, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Cobra™ Rods are effective against some kinds of termites. **Cobra™ Rods** are used internally in wood with a permanent or periodical moisture content above the fiber saturation point (30%) for poles, etc. The rate of application for **Cobra™ Rods** is dependent upon the volume of wood to be treated. The recommended load is up to 6 oz. Boric Acid per cubic foot of wood depending upon requirements for treatment. The loading should not be less than 2.0 oz. of Boric Acid per cubic foot of wood. **Cobra™ Rods** contain 1.45 times equivalent Boric Acid (BAE).

Inspections can be carried out every 5-8 years for industrial wood and every 8-10 years for commercial wood. If reusable plastic plugs are used new rods may be inserted into existing holes during the reinspection process and the same plugs tapped back into place. The angle at which the rods are installed should be at 45° for wood placed vertically into the ground. If the wood is decayed sufficiently to be condemned and no reinforcement is mandated, DO NOT install **Cobra™ Rods**. Be careful during installation to not cause unacceptable structural damage to the wood during installation of rods.

For additional information, please contact us toll-free at:
1-877-943-6427 or at www.genicsinc.com

READ THE ENTIRE LABEL BEFORE USE.

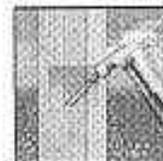
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

DIRECTIONS FOR USE

Genics Cobra™Rods are for treatment of pole structures, dimensional lumber (round stock, square stock) or any non-food contact wood. Cobra™Rods are recommended for protection against fungal decay and insects. Cobra™Rods can be used for all wood species.

To install Cobra™Rods, the three step process is as follows:

1. Drill a hole at ground level (for posts and poles) using a ½" spade bit. Start the hole with the drill positioned horizontally. Once the bit is established, raise the drill to aim downward into the post at a 45° angle. Leave enough headroom to accommodate a 1/16" oversize plug.
2. Place the Cobra™Rod into the hole. Never hammer the Cobra™Rod during installation.
3. Insert the plug and push firmly to seat in hole. Hammer in plug until flush with surface.



Cobra™Rods are placed into holes drilled in wood at specific high risk locations (such as at the groundline or near joints and exposed end-grain) and are dependant upon moisture in the wood to work. The rods are positioned so that they are dissolved by the moisture in the wood and the desired loadings are distributed throughout the target area. For remedial treatments of existing decay, 6 oz. of Boric Acid Equivalent (BAE) per cubic foot of wood is recommended. For preventative treatments, 2 oz. BAE/c.f. is sufficient.

For Preventative treatment of wood, see Recommended Application Rates table below. When treating exposed ends or joints, Cobra™Rods should be installed within six inches of the exposed end or joint.

Recommended Application Rates (Preventative Treatment)

Lumber Size (in)	Spacing (in)	Rods/Hole
4 x 4	12	1
4 x 6	9	1
4 x 8	7	1
6 x 6	6	1
6 x 8	10	2
6 x 12	6	2
8 x 8	7	2
10 x 10	7	3
4" D	14	1
6" D	8	1
8" D	9	2
10" D	9	3
12" D	8	4