

# BORA-CARE®

## Termiticide, Insecticide and Fungicide Concentrate

**For the Prevention and Control of: Termites, Carpenter Ants, Fungi (Rot) and Algae  
For Both Interior and Exterior Use**

For use in and around Homes, Apartments, Garages, Museums, Public and Private Institutions, Schools, Hotels, Hospitals, Kennels, Stables, Farm Buildings, Trucks, Trailers, Warehouses and Non-Food Areas of Supermarkets, Restaurants and Food Processing Plants.

**Keep Out of Reach of Children  
CAUTION**

**Active Ingredient:**

Disodium Octaborate Tetrahydrate ( $\text{Na}_2\text{B}_8\text{O}_{13} \cdot 4\text{H}_2\text{O}$ )..... 40%

**Other Ingredients** ..... 60%

Total ..... 100%

EPA Reg. No. 64405-1

EPA Est. 64405-TN-1

U.S. Patent Nos. 5,104,664,  
5,460,816, 5,645,828,  
6,426,095, 6,630,174

### PRECAUTIONARY STATEMENTS Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if inhaled or absorbed through skin. Avoid breathing vapors or spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Thoroughly wash with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Avoid contamination of food or feed. Do not leave container where children or animals may gain access.

#### First Aid Borate Pesticide

<b>If Inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li></ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li></ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li></ul>

Call a poison control center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

#### Environmental Hazards

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to intertidal areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

#### DIRECTIONS FOR USE

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

#### Notice

Read and understand the entire label before using. Use only according to label directions. Before buying or using this product, read **Warranty Limitations and Disclaimer** statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Limitations and Disclaimer**.

**MADE IN THE U.S.A.**



100 Nisus Drive, Rockford, TN 37853  
(800) 264-0870  
[www.nisuscop.com](http://www.nisuscop.com)

Do not use in edible product areas of food processing plants or on countertops and other surfaces where food is prepared. Do not use in serving areas where food is exposed. Do not contaminate feed, water or food.

**Storage and Disposal**

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

**Pesticide Storage:** Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Do not freeze.

**Disposal: If empty:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Safe Handling Procedures**

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, chemical-resistant gloves and protective eyewear. When applying **Bora-Care** in confined spaces, it is recommended that ventilation or an exhaust system be provided. If this is impractical the use of a NIOSH-approved respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval prefix TC-14G) or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter is recommended. Clean spills and over-spray with a damp cloth or absorbed with appropriate materials. (Refer to the **Bora-Care** Material Safety Data Sheet for additional health and safety information.)

**I. Mixing Instructions**

**Bora-Care** is a concentrate that **must** be diluted with clean water before use. The use of warm or hot water, if available, and an impeller-type mixer that can be used with an electric drill aids the dilution process.

- A. Hand Sprayers:** Mix in a clean container and stir the solution until completely uniform. Always mix in a separate container then add the solution to a spray tank. Mixing **Bora-Care** directly in a spray tank can block hoses and nozzles.
- B. Hand Volume Pumping Systems:** Add all of the dilution water to tank, start recirculator and slowly add **Bora-Care** concentrate. Mix until uniform.

Use 1:1, 2:1 and 3:1 **Bora-Care** solutions within 24 hours after mixing. 5:1 solutions will remain stable for up to 30 days. Do not leave unused solution under pressure or in tank overnight. Clean and/or flush equipment and lines with water after use.

**Bora-Care** may be tank-mixed with an approved non-residual pesticide for quicker knockdown of carpenter ants and other insects, or with an approved fungicide for increased performance against mold.

**II. Dilution Ratios by Volume**

**Table A**

Target Pests	Mixing Ratios Water plus Bora-Care	Application Notes
All Insects	1:1	For use as a remedial control applied by spray, injection, brush or roller
Subterranean and Formosan Termites	1:1 or 2:1	For remedial and preventative treatments apply a 1:1 dilution ratio for all treatments by spray, injection, brush or roller. The 2:1 dilution ratio may be used for foaming or, for application into inaccessible wall voids, may be used in a Nisus-approved misting machine.
Drywood Termites	1:1, 2:1 or 5:1	For remedial treatment apply the 1:1 or 2:1 by foam or by misting using a Nisus-approved misting machine. Use the 5:1 dilution ratio for prevention.
Anobiid and Lyctid Powderpost Beetles	1:1, 2:1 or 5:1	For all remedial treatments use a 1:1 dilution ratio. Logs > 4" require a 1:1 dilution ratio for prevention. Use a 2:1 dilution ratio for treating hardwood floors. Use the 5:1 dilution ratio for prevention.
All other beetle species including Old House Borer	1:1 or 5:1	Use the 1:1 dilution ratio for remedial and preventative treatment in wood > 4" in thickness. Use the 5:1 dilution ratio for prevention in wood less than 4" in thickness.

**Table A (cont.)**

Target Pests	Mixing Ratios Water plus Bora-Care	Application Notes
Carpenter Ants	1:1, 2:1 or 5:1	Use the 1:1 dilution ratio for all remedial treatments. Use the 2:1 dilution ratio for remedial treatments applied by foam or with a Nisus-approved misting machine (or applicator). Use the 5:1 dilution ratio for prevention.
Fungi (Rot) and Algae	1:1, 3:1 or 5:1	For remedial control use a 1:1 dilution ratio on wood members 4" or greater in thickness. Use a 3:1 dilution ratio for wood less than 4" in thickness. For prevention use a 5:1 dilution ratio.

**Table B**

Materials to Be Treated	Mixing Ratios Water plus Bora-Care	Application Notes
Logs, Large Beams, Timber and Dimensional Lumber > 4"	See target pests in Table A	All spray applications for insects and Fungi (rot).
Decking, Fences and Plywood	See target pests in Table A	Use on wood members 2" or less in thickness.
Logs, Large Beams and Dimensional Lumber	See target pests in Table A	Use the 5:1 dilution ratio only for dip treatment for insect prevention. May be used in conjunction with other fungicides for fungi (rot) control.
Cellulosic Drywall and Insulation	1:1, 3:1 or 5:1	Use the 3:1 dilution ratio for active remedial treatment of dry rot. Use the 5:1 dilution ratio for prevention of dry rot. May be used in conjunction with other fungicides.

**Table C**

Parts Water		Parts Bora-Care	% Disodium Octaborate Tetrahydrate
1	to	1	23%
2	to	1	16%
3	to	1	13%
5	to	1	9%

**III. General Information**

**Bora-Care** is an innovative termiticide, insecticide and fungicide that eliminates existing infestations and provides long term protection against:

- Subterranean Termites: *Reticulitermes*, *Heterotermes*
- Formosan Termites: *Coptotermes*
- Drywood Termites: *Kaloterms*, *Incisitermes*
- Dampwood Termites: *Zootermopsis*, *Neotermes*
- Powderpost Beetles: *Lyctidae*, *Bostrichidae*
- Anobiid Beetles: *Anobiidae*
- Old House Borers, Longhorn Beetles: *Cerambycidae*, *Hylotrupes*
- Ambrosia Beetles: *Platypodidae*, *Scolytidae*
- Carpenter Ants: *Camponotus*
- Brown Rot (including dry rot), White Rot, Wood Decay and Other Fungi

**Bora-Care** may be used on all cellulosic materials including wood, plywood, particle board, paper, oriented strand board (OSB), cardboard and wood composite structural components and applied to concrete, block, brick, metals, PVC plumbing pipes and other non-cellulosic materials found in structures as part of a preventative subterranean termite treatment. Apply **Bora-Care** only to bare wood, plywood, particle board and other cellulosic materials where an intact water-repellent barrier, such as paint, stain or sealer, is not present.

For tracking purposes (to make it easier to see where **Bora-Care** solutions have been applied) an appropriate marker dye or pigment may be added to the solution when diluting **Bora-Care** with water. Refer to the dye or pigment product label for recommended amount to add to the **Bora-Care** solution.

When spraying overhead interior areas of homes, apartment buildings, etc., cover or protect all surfaces below the area being sprayed with plastic sheeting or other material that can be disposed of if contamination from dripping occurs. Do not apply in food serving areas while food is exposed.

In new construction applications for the prevention of subterranean termites, structural wood is defined as: only wood needed for the basic building structure as found in the dried-in stage of construction, including wood in direct contact with foundations, interior and exterior wall sill plates, wood studs, wood or cellulosic sheathing, floor joists and sub-flooring.

Use soap and water to clean up tools.

In structures where a soil treatment/barrier termiticide has been applied and/or termite bait system installed, apply **Bora-Care** as an additional treatment to protect wood from subterranean termites that may have penetrated the chemical gaps occurring within the termiticide-treated soil or have bypassed the bait/monitor systems and entered the structure for termites, beetles and decay fungi that can fly or be carried directly into the structure, entirely bypassing the soil treatment.

As a remedial treatment, **Bora-Care** will both eliminate and prevent infestations of Formosan, native subterranean termites, wood boring beetles, carpenter ants and decay fungi. It may also be used as a supplement or alternative to fumigation in order to provide long-term residual control. Since **Bora-Care** is applied directly in the structure, it can be used in areas where environmental contamination is of concern (nearby wells, cisterns, etc.). The active ingredient in **Bora-Care** is an inorganic salt and once in place it will not decompose or volatilize out of the wood.

**Bora-Care** is **not** a soil termiticide. Do not use to directly treat soil except as directed.

Older wood boring beetle larvae and especially pupae (particularly Old House Borers) already present in the wood at the time of treatment may occasionally emerge sometime after treatment. This is because they are no longer feeding on the wood. This will not occur frequently enough to cause structural damage to any wooden member and reinfestation is prevented.

#### **IV. Remedial Treatment for the Control of Subterranean, Formosan, Drywood and Dampwood Termites, Carpenter Ants, Old House Borers, Powderpost and Other Wood Boring Beetles and Fungi (Rot)**

- A. Infested wood** may be treated by spraying and/or injecting **Bora-Care** solution into beetle holes, termite and carpenter ant galleries and decay pockets. Apply one (1) coat of **Bora-Care** solution to the point of wetness to all infested and susceptible wood, paying particular attention to infested areas. Two (2) coats of **Bora-Care** solution need only be applied to those wood members with only one (1) or two (2) exposed sides. For quicker control, apply an additional coat to heavily infested areas, waiting at least 20 minutes between applications.

In cases where the infestation is not accessible from the surface, small holes may be drilled into the wood in order to gain access to the infested area. Inject enough solution to completely flood galleries or voids. Adjacent intact wood may be treated by pressure injecting **Bora-Care** into holes drilled into the wood at eight (8) to ten (10)-inch intervals. Inject at 40 psi for four (4) to six (6) seconds per hole.

For treating infested wall voids, refer to Sections IV.E. and F.

- B. Basements and crawl spaces** may be treated by applying one (1) coat of diluted **Bora-Care** solution to the point of wetness to all infested and susceptible wood surfaces including sill plates, piers, girders, subfloors, floor joists

and any wood exposed to vertical access from the soil. On wood where access is limited to one (1) or two (2) sides of wood members, such as sills and plates on foundation walls, apply two (2) coats of **Bora-Care** solution. Wait at least 20 minutes between applications. Apply at a rate of approximately one (1) gallon of **Bora-Care** solution per 200 square feet of floor area (400 square feet of wood surface area).

- C. Buildings on slabs** may be treated by applying **Bora-Care** solution into wall voids by locating each stud and drilling a small hole through the wall covering to gain access to the infested area, or by foaming or misting (with a Nisus-approved misting machine) as described in Sections IV.E and F. Drill holes every 18-24 inches adjacent to the side of each stud and inject at least 1/3 fluid ounce of **Bora-Care** solution per hole. Drill at least one hole per stud bay near the floor to treat the base plate in each void. Treat entire wall areas as opposed to single stud bays to completely include the infested area within the treatment zone.
- D. Wood flooring** may be treated by spray, brush or roller application. Prior to application, remove any existing finish by complete coarse sanding or stripping. Apply a two (2) parts water to one (1) part **Bora-Care** (2:1) solution at a rate of approximately one (1) gallon of solution per 500 square feet of floor surface. For treating infestations of subterranean or Formosan termites, two (2) coats may be required, waiting at least one (1) hour between applications. Allow floor to completely dry (typically 48 to 72 hours). Moisture content must be 10% or less before applying final finish. **Bora-Care** applications may raise the grain of the wood and an additional **light** sanding may be necessary before applying a new finish. Although **Bora-Care** is compatible with most floor coatings, always test a small section of treated floor with the new finish and check for appropriate adhesion prior to coating the entire floor.  
**Note:** If surface is tacky or residue is evident after 72 hours of drying time, wash affected area with clean water and a mop, cloth or sponge, rinsing frequently. Allow surface to dry prior to final **light** sanding and application of finish coat.
- E. For treating voids, wall studs and wood members not accessible by conventional application methods,** spray or mist solution (using a Nisus-approved misting machine) into voids and channels of damaged or suspected infested wood and/or through small holes drilled into walls and baseboard areas. Space holes no more than 24" apart along each member to be treated and at least one (1) hole must be drilled between each wall stud when treating base plates. Use sufficient amount of material to cover all areas to the point of wetness.  
**Note:** Existing insulation may interfere with distribution of the **Bora-Care** solution. If necessary, move or displace insulation during or prior to treatment.
- F. Foam applications: Bora-Care** may be applied to bare wood surfaces and void areas as a foam by mixing two (2) parts water with one (1) part **Bora-Care** (2:1) and adding 3 to 8 ounces of foaming agent per gallon of mixed solution. Apply foam to fill the void. Foam will take approximately one (1) hour to return to liquid state and soak into bare wood.  
  
Apply foamed **Bora-Care** to void spaces at a 1:20 to 1:30 foam ratio (one (1) gallon of mixed solution expanded with foaming agent to produce 20 to 30 gallons of foam). Apply enough foam to fill void and contact wood surfaces in the void space.
- G. Foam insulation** may be treated by injecting a one (1) part water to one (1) part **Bora-Care** (1:1) solution into the infested area and/or low pressure surface spraying at a rate of one (1) gallon per 300 to 400 square feet.  
**Note:** Some types of foam insulation, such as polyisocyanurate and extruded polystyrene, have closed cell structures that do not allow significant penetration from surface application. Inject and surface spray these types of insulation to achieve proper control or infestations prevention.
- H. For remedial treatments,** apply a supplemental treatment of **Bora-Care** to concrete, block or brick on the interior of crawlspace and basement foundations to prevent shelter tubing by subterranean termites. Apply **Bora-Care** 1:1 [one (1) part water to one (1) part **Bora-Care**] solution at the rate of one (1) gallon to 400 square feet of surface area. In crawlspaces, apply solution two (2) feet (24 inches) up from the ground on interior wall surfaces. In unfinished basements with bare slabs, apply **Bora-Care** 1:1 solution two (2) feet (24 inches) up from the slab on interior foundation walls. In addition to the wall treatment, extend application up to six (6) inches away from foundation walls onto the horizontal surface of the bare slab. Treat bath trap areas in slab construction, after obtaining access to the area, by evenly applying eight (8) ounces of the 1:1 **Bora-Care** solution into the soil of

dirt filled traps and applying a 1:1 **Bora-Care** solution in at least a one (1) foot (12 inch) band covering all sides on the slab surface area out from the trap area. Treat other termite access areas, such as plumbing penetrations, by applying the 1:1 **Bora-Care** solution in at least a one (1) foot (12 inch) band covering all sides of the slab surface area out from the penetration and by treating protruding utilities and adjacent wood to a height of two (2) feet (24 inches),

## V. Preventative and/or Pretreatment for Whole House Protection from Subterranean, Formosan, Drywood and Dampwood Termites, Carpenter Ants, Old House Borers, Powderpost and Other Wood Boring Beetles, and Fungi (Rot)

**Note:** This treatment serves as a primary treatment for all wood destroying organisms listed above including Formosan and subterranean termites.

Apply pretreatment at a point during the construction process when the greatest access to all structural wood members is available. Normally this is at the "dried-in" stage of construction when all structural wood and sheathing is in place, yet prior to installation of insulation, mechanical systems, electrical wiring, etc.

Apply to the point of wetness one (1) coat of a one (1) gallon water to one (1) gallon **Bora-Care** (1:1) solution to wood surfaces for subterranean termites and Formosan termites as described in Section VI. For treatment of new log structures see Section IX. Treat remainder of structural wood in a five (5) parts water to one (1) part **Bora-Care** (5:1) solution. Concentrate application in areas susceptible to attack, to include all sills, plates, floor joists, piers, girders and subfloors. Treat structural wood in all plumbing, electrical and ductwork areas where they penetrate walls or floors. Treat all structural wood base plates and studs on interior and exterior walls, especially those surrounding any high moisture areas such as bathrooms, kitchens and laundry rooms. For buildings built on slabs, treat all structural wood in contact with the slab, all interior and exterior wall studs and wall sheathing material. In attics, treat all structural wood including ceiling joists, trusses, top plates, rafters and roof decking. Be sure that all structural wood sill plates and structural wood contacting garages and porches are treated.

In areas where access is limited to one (1) or two (2) sides of a wood member, apply two (2) coats of **Bora-Care** solution to the exposed surfaces. Wait at least 20 minutes between applications.

Treat all exterior wood including siding, facias, soffits, eaves, roofing, porches, decks and railings (refer to Section V for complete exterior application information).

## VI. Preventative and Pretreatments for Subterranean Termites (Crawl Space, Basement and Slab)

**Note:** This treatment serves as a primary treatment for the control of subterranean termites.

Use only a one (1) part water to one (1) part **Bora-Care** (1:1) solution when treating for subterranean termites.

Pretreatment must be applied at the dried-in stage of construction when all structural wood and sheathing is in place, yet prior to installation of insulation. It is best performed when greatest access to all structural wood members is available and when no further framing modifications will be made, such as after final framing inspection. If treatment is carried out prior to framing inspection, a second visit is required to ensure full treatment is still intact.

Do not use for new construction treatments if the total linear footage of the cellulosic base plates is less than 60% of the total linear footage of all base plates in structure to include exterior and interior walls. In new construction with 60% or more lineal footage of base plates, but without continuous wood on every exterior wall, the **Bora-Care** treatment must be installed to all other exterior structural construction materials, including brick or block, to a height of two (2) feet (24 inches) and extended out onto the slab a minimum of two (2) to a maximum of eight (8) inches.

**A. Buildings on Crawl Spaces and Basements:** Apply one (1) coat of a one (1) gallon water to one (1) gallon (1:1) **Bora-Care** solution in a two (2) foot (24-inch) wide uninterrupted band to the point of wetness to all structural wood surfaces in crawl spaces and basements, to include all sills, plates, floor joists, piers, girders and subfloors as well as structural wood exposed to direct vertical access from the soil. To prevent termite shelter tubes on crawlspace walls, apply a 1:1 **Bora-Care** solution to crawlspace concrete or block walls in a two (2) foot (24 inch) band up from the ground on interior wall surfaces. Apply at the rate of one (1) gallon to 400 square feet

of surface area. Treat a two (2) foot (24-inch) band around construction materials and structural wood adjacent to plumbing, electrical conduit and ducts where they penetrate subfloors, if they provide a direct vertical access from the soil. Treat all structural wood, including wall studs and sills, in finished-out basements where structural wood framing is immediately adjacent to the exterior foundation walls. Spray concrete slab surface a minimum of two (2) up to a maximum of eight (8) inches. To prevent termite shelter tubes on basement walls, spray all interior concrete or block foundation walls with a two (2) foot (24 inch) band up from the slab area. Apply the 1:1 **Bora-Care** solution at the rate of one (1) gallon per 400 square feet of concrete foundation wall area. **On structural wood where access is limited to one (1) or two (2) sides of wood members such as sills and plates on foundation walls or wrapped sheathing, apply two (2) coats of Bora-Care solution.** Wait at least 20 minutes between applications. If accessible, treat the exterior of structural wood sill areas around the entire perimeter of the structure with a 24-inch wide band of **Bora-Care** solution beginning with the sill area and extending upwards onto the sheathing material. On multiple story structures, treat only the first story above the masonry foundation level. Coated or painted structural wood may be treated by pressure injecting **Bora-Care** into holes drilled into the wood at eight (8) to ten (10)-inch intervals. Inject at 40 psi for four (4) to six (6) seconds per hole.

**B. Buildings on Slabs:** Apply one (1) coat of a one (1) gallon water to one (1) gallon **Bora-Care** (1:1) solution to all base plates and the bottom two (2) feet (24 inches) of all studs on all exterior and interior walls. When spraying base plates also treat concrete surface a minimum of two (2) inches to a maximum of eight (8) inches in from plates. **In areas where access is limited to one (1) or two (2) sides of a structural wood member, such as sills and plates on foundation walls or wrapped sheathing, apply two (2) coats of Bora-Care solution to the exposed surfaces.** Wait at least 20 minutes between applications. Treat all structural wood in plumbing walls and apply to any wood in bath traps as well as structural wood adjacent to plumbing, electrical conduit and duct penetrations to provide a minimum two (2) foot (24-inch) wide barrier of treatment between the soil and the balance of the structure. Using a 1:1 **Bora-Care** solution treat all available plumbing penetrations at least two (2) feet (24 inches) up from slab. Treat all slab surface area at least one (1) foot out from all bath trap penetrations. Evenly treat dirt-filled bath traps with a minimum of eight (8) ounces of the 1:1 **Bora-Care** solution to a maximum of sixteen (16) ounces per square foot of trap. Treat any plumbing penetrations not associated with any nearby structural wood by spraying the 1:1 **Bora-Care** solution on available plumbing penetrations up to two (2) feet (24 inches) high and extending application to cover at least six (6) inches of slab surface area out from penetration site.

**C. Foam insulation** may be treated with low-pressure spraying or injected at the rate of one (1) gallon per 300 to 400 square feet.

**Note:** Some types of foam insulation, such as polyisocyanurate and extruded polystyrene, have closed cell structures that do not allow significant penetration from surface application. Inject and surface spray these types of insulation to achieve proper control or prevention of infestations.

## VII. Preventative Treatment for Drywood Termites and Powderpost Beetles

Apply one (1) coat of a 5:1 [five (5) gallons water to one (1) gallon **Bora-Care**] solution to the point of wetness to all structural wood surfaces using a brush, spray or mist. Apply two (2) coats of **Bora-Care** solution to those surfaces where access is limited to one (1) or two (2) sides of structural wood members. Wait at least 20 minutes between applications.

## VIII. Treatment of Exterior Wood Surfaces Less Than Two Inches Thick such as Decks, Sheds and Fences

Apply only to bare wood or to wood surfaces where an intact water repellent or finish is not present. If necessary, remove paint or finish prior to application. Apply one (1) coat of **Bora-Care** solution to the point of wetness to all wood surfaces. Apply two (2) coats of **Bora-Care** solution to heavily infested areas and to those surfaces where access is limited to one (1) or two (2) sides of wood members. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.

For wood in contact with the ground or soil, see Section XII.

- A. Finishing and Maintaining Treated Surfaces:** For long-term protection, exterior wood surfaces that have been treated with **Bora-Care** will require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within six (6) weeks of treatment. It is important to allow **Bora-Care**-treated wood to completely dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

## **IX. Treatment of Log Structures, Timbers, Beams, Pilings and Exterior Wood Members Two or More Inches Thick**

Apply only to bare wood or to wood surfaces where an intact water repellent or other finish is not present. If necessary, remove paint or finish prior to application. Prior to treatment clean interior, unfinished surfaces that have accumulated dirt or cooking oils with a strong detergent. Apply a one (1) part water to one (1) part **Bora-Care** (1:1) solution to the point of wetness to all interior and exterior wood surfaces. Refer to application chart for minimum amount of **Bora-Care** to treat various sized logs or beams. Typically, two (2) coats of solution will be required to treat round logs 10" or greater in diameter and rectangular logs larger than 6" x 12". Wait at least one (1) hour between applications. Also apply two (2) coats of **Bora-Care** solution to log ends, notches, corners and sill logs. Actual number of coats necessary to meet the minimum requirements will depend upon actual wood size, surface porosity and number of sides accessible for treatment. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.

- A. Finishing and Maintaining Treated Surfaces:** For long-term protection, exterior wood surfaces that have been treated with **Bora-Care** will require a topcoating with a water-resistant finish, paint or exterior stain. Apply the finish or topcoat within six (6) weeks of treatment. It is important to allow **Bora-Care**-treated wood to completely dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

## **X. Dip Treating Logs and Lumber**

Prepare a dip treating solution by mixing five (5) parts water to one (1) part **Bora-Care** (5:1). This will result in a stable solution containing 9% active ingredient. Sticker bundled wood to ensure the solution covers all wood surfaces. Submerge logs and/or lumber in the solution for at least one (1) minute or until all entrapped air has escaped. Protect treated wood from rain or snow for at least 24 hours after treatment.

## **XI. Treatment of Wood in Contact with the Ground**

A **Bora-Care** treatment to wood in contact with the ground or soil has a limited lifespan and will require periodic reapplication. Protection may be extended with the use of a 40% disodium octaborate tetrahydrate (or borate) gel product.

## **XII. Prevention and Remedial Control of Algae for Cellulosic Building Components**

Apply **Bora-Care** for the prevention and remedial control of algae to cellulosic building components (drywall, insulation) in new construction and existing structures and where an intact water repellent barrier such as paint, stain or sealer is not present. Apply **Bora-Care** at the rate of one (1) gallon of solution per 400 square feet of surface area. Apply only to the back paper side of drywall and to cellulose insulation. In areas where drywall has been installed and insulation is enclosed, apply **Bora-Care** using a Nisus-approved misting machine (or applicator) applying sufficient solution to cover surfaces at the rate of one (1) gallon per 400 square feet. Refer to **Tables A and B** for mixing ratios for preventative and remedial algae treatments.

## **XIII. General Pest Applications**

The application of **Bora-Care** to the surface of wood in new construction or to wood surfaces inside wall void areas in existing structures helps to prevent the establishment of cockroach and other insect pests infestations in these treated areas. Apply one (1) gallon of **Bora-Care** solution per 400 square feet of surface area or refer to **Tables A and B** when applying as a surface application against wood destroying organisms.



## XIV. Bora-Care Total Wood Preservative

A wood preservative for protection and treatment of wood against brown rot, white rot, fungi (rot) and wood destroying insects including beetles, termites and carpenter ants. Treatment is permanent provided the treated material is not exposed to rain, moisture or ground contact.

- A. General Information:** **Bora-Care** is a concentrated solution of sodium borate with additives that facilitate rapid penetration of wood, regardless of moisture content. It is designed for preventative and/or remedial treatment of wood in both new and existing structures against fungi (rot) and wood boring insects including:

Subterranean Termites (*Reticulitermes*, *Heterotermes*, *Coptotermes*)

Dampwood Termites (*Zootermopsis*)

Drywood Termites (*Kaloterms*, *Incisitermes*)

Powderpost Beetles (*Lyctidae*, *Bostrichidae*)

Anobiid Beetles (*Anobiidae*)

Old House Borers, Longhorn Beetles (*Cerambycidae*)

Carpenter Ants (*Camponotus*)

- B. Surface Preparation:** Apply only to bare wood. Remove any previous finishes or water repellents before application of **Bora-Care**. Surfaces must be free of dirt and other contaminants. If finished appearance is a concern, prior to application of **Bora-Care**, remove any mold or mildew with an appropriate wood cleaner followed by thorough surface rinsing.

**C. Application Instructions:**

- 1. Treatment of Dimensional Lumber, Plywood and Exterior Wood Surfaces (Decks, Sheds, Siding, etc.):** Apply only to bare wood or to wood surfaces where an intact water repellent or finish is not present. If necessary, remove paint or finish prior to application. To all wood surfaces apply to the point of wetness one (1) coat of either a one (1) part water to one (1) part **Bora-Care** (1:1) solution for remedial control of wood-infesting insects, three (3) parts water to one (1) part **Bora-Care** (3:1) for remedial control of fungi (rot), two (2) parts water to one (1) part **Bora-Care** (2:1) foam or mist solution or a five (5) parts water to one (1) part **Bora-Care** (5:1) solution for insect and fungi (rot) prevention. Apply two (2) coats of **Bora-Care** solution to heavily infested areas and to those surfaces where access is limited to one (1) or two (2) sides of wood members. Do not apply in rain or snow. Do not expose treated exterior wood surfaces to rain or snow for at least 48 hours after treatment. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp.
- 2. Treatment of Logs, Timbers and Large Beams:** Apply only to bare wood or to wood surfaces where an intact water repellent or other finish is not present. If necessary, remove paint or finish prior to application. Prior to treatment, clean interior, unfinished surfaces that have accumulated dirt or cooking oils with a strong detergent. Apply to the point of runoff by spray or brush a one (1) part water to one (1) part **Bora-Care** (1:1) solution to all interior and exterior wood surfaces. Refer to application chart for minimum amount of **Bora-Care** to treat various size logs or beams. Typically, two (2) coats of solution will be required to treat round logs 10" or greater in diameter and rectangular logs larger than 6" x 12". Wait at least one (1) hour between applications. Also apply two (2) coats of **Bora-Care** solution to log ends, notches, corners and sill logs. Actual number of coats necessary to meet the minimum requirements will depend upon actual wood size, surface porosity and number of sides accessible for treatment. Do not apply in rain or snow. If inclement weather is expected, protect exterior treated surfaces with a plastic tarp for at least 48 hours after treatment.
- 3. Dip Treating Logs and Lumber:** Prepare a dip treating solution by mixing five (5) parts water to one (1) part **Bora-Care** (5:1). This will result in a stable solution containing 9% active ingredient. Sticker bundled wood to ensure the solution covers all wood surfaces. Submerge logs and/or lumber in the solution for at least one (1) minute or until all entrapped air has escaped. Protect treated wood from rain or snow for at least 24 hours after treatment.

- D. Finishing and Maintaining Exterior-Treated Surfaces:** For long-term protection, exterior wood surfaces that have been treated with **Bora-Care** require a topcoating with a water-resistant finish such as paint or exterior stain. Apply the finish or topcoat within six (6) weeks of treatment. It is important to allow **Bora-Care**-treated wood to completely dry (at least 48 hours) before applying any protective topcoat. Coat a small section of treated

wood with the finish to be used and check for compatibility prior to complete application. Interior surfaces do not require topcoating except in situations involving repeated moisture contact or high humidity (shower stalls, bath houses, saunas, etc.)

- E. Retention Rates:** One (1) gallon of **Bora-Care** concentrate (two (2) gallons of **Bora-Care** solution as applied) will treat 800 board feet of wood to a minimum retention level of 0.084 pounds per cubic foot boric acid equivalent (BAE). Since the active ingredient penetrates throughout the wood being treated, calculate the amount of **Bora-Care** needed on the volume of wood being treated, not just the surface area. Use the following formulas to calculate the required amount of **Bora-Care**:

**For Dimensional Lumber  
(2 x 4, 2 x 6, 2 x 12, etc.)**

Material thickness (inches) x material width (inches) x material length (feet) divided by 12 = Board Feet

**For Log Homes**

Log height (inches) x log thickness (inches) x perimeter (feet) x number of courses divided by 12 = Board Feet  
(For round logs use the average diameter for both height and thickness measurements)

**For Siding and Paneling**

One (1) gallon of **Bora-Care** concentrate (two (2) gallons of solution) will treat 800 sq. ft. of 1" thick wood by spraying only one side. If siding or paneling is 1/2" thick, one (1) gallon of **Bora-Care** concentrate (two (2) gallons solution) treats 1,600 sq. ft.

**XV. Application Rates**

**Table A – Dimensional Lumber**

Lumber Size (Inches)	1 Gallon of Diluted Bora-Care® Will Treat Up To	Minimum Amount of Diluted Bora-Care® To Treat 1000 Lineal Feet
1 x 4	1,200 Lineal Feet	0.8 Gal.
1 x 12	400	2.6
2 x 4	600	1.6
2 x 6	400	2.6
2 x 8	308	3.2
2 x 10	240	4.2
2 x 12	200	5.0
4 x 4	300	3.4
4 x 6	200	5.0
4 x 8	150	6.8
4 x 12	100	10.0
6 x 6	133	7.6
6 x 8	100	10.0
6 x 10	80	12.6
6 x 12	68	15.0

**Table B – Panels, Siding and Plywood**

(1:1 or 2:1 mixing ratio)

<b>Thickness (Inches)</b>	<b>1 Gallon of Diluted Bora-Care® Will Treat Up To</b>	<b>Minimum Amount of Diluted Bora-Care® To Treat 1000 Lineal Feet</b>
1/4	1,600 sq. ft.	0.6 Gal.
3/8	1,067	1.0
1/2	800	1.2
3/4	533	1.8
1	400	2.6

**Table C – Round Logs**

(only the 1:1 mixing ratio)

<b>Diameter (Inches)</b>	<b>1 Gallon of Diluted Bora-Care® Will Treat Up To</b>	<b>Minimum Amount of Diluted Bora-Care® To Treat 1000 Lineal Feet</b>
6	167 Lineal Feet	6.0 Gal.
8	96	10.4
10	61	16.4
12	43	23.4

**Note:** The numbers listed above are based on an application rate of one (1) gallon of **Bora-Care** solution to 400 board feet of wood.

#### **XVI. Warranty Limitations and Disclaimer**

Because of varying conditions affecting use and application, manufacturer warns buyer that these may impair or vary the results or effects of the use of this product. In any event, complete prevention of decay or insect infestation is not guaranteed. Neither the manufacturer nor seller shall be liable in respect to any injury or damage suffered by reason of the use of this product for a purpose not indicated by the label or when used contrary to the directions or instructions hereon or with respect to breach of any warranty not expressly specified herein. Buyer accepts this material subject to these terms and assumes all risk of usage and handling except when used or handled in accordance with this label.

It is not intended that this product be used to practice any applicable patent, whether mentioned or not, without procurement of a license, if necessary, from the owner, following investigation by the user.



**Nisus Corporation**  
100 Nisus Drive • Rockford, TN 37853  
(800) 264-0870 • [www.nisuscorp.com](http://www.nisuscorp.com)

**Bora-Care® is a Registered Trademark of Nisus Corporation**  
**Made in the U.S.A.**

© 11/04