



National Evaluation Service, Inc.

5203 Leesburg Pike, Suite 600, Falls Church, Virginia 22041-3401

Phone: 703/931-2187 Fax: 703/931-6505

website: www.nateval.org



NATIONAL EVALUATION REPORT

Copyright © 2001, National Evaluation Service, Inc.

Report No. NER-617

Issued October 1, 2001

BORA-CARE® TERMITICIDE, INSECTICIDE AND FUNGICIDE

NISUS CORPORATION
215 DUNAVANT DRIVE
ROCKFORD, TENNESSEE 37853
800-264-0870

nisus@nisuscorp.com
www.nisuscorp.com

1.0 SUBJECT

BORA-CARE® Termiticide, Insecticide and Fungicide

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT

Protection Against Termites

3.0 DESCRIPTION

BORA-CARE Termiticide is used to provide protection against subterranean termites. BORA-CARE is a Federal EPA registered Termiticide that is applied to wood surfaces by spraying, brushing, and injections and prevents infestation of subterranean termites. BORA-CARE kills the termites through ingestion. The active ingredient in BORA-CARE is Disodium Octaborate Tetrahydrate (DOT), which is a mixture of borax and boric acid. BORA-CARE utilizes a patented formulation of this mineral salt (DOT) and glycols to penetrate and protect the wood. When BORA-CARE is applied to bare wood, it penetrates the wood and deposits DOT. Diffusion of BORA-CARE into the wood continues after application until there is uniform distribution of the active ingredient in the wood member.

BORA-CARE is water soluble. When fresh wood with no sealants is treated with BORA-CARE, the borate penetrates completely through the wood member, therefore, the wood member is permitted to be cut after treatment is complete.

4.0 INSTALLATION

4.1 General

BORA-CARE Termiticide is installed in accordance with the manufacturer's published installation instructions and this report. Applicators of BORA-CARE shall be trained by the Nisus Corporation and shall be licensed pest control operators.

The manufacturer's published installation instructions and this report shall be strictly adhered to and a copy of these instructions shall be available at all times on the job site during installation.

The instructions within this report govern if there are any conflicts between the manufacturer's published installation instructions and this report.

4.2 Application

BORA-CARE is a concentrate that must be diluted with water before use. The dilution rate is one part water to one part BORA-CARE for all pretreatment applications. Prior to dilution, BORA-CARE is a thick viscous liquid similar in appearance to honey. When diluted and mixed, the solution has the same consistency as water.

BORA-CARE is applied by spraying, brushing, and injection. BORA-CARE is not a restricted category pesticide, but shall be applied by a professional pest control operator in accordance with local, state, or federal pest control regulations. BORA-CARE is clear and odorless.

All wood surfaces shall be treated according to label directions when protecting the structure for subterranean termites. Pretreatment for subterranean termite protection consists of treating a two foot band of wood around the perimeter of a structure containing a crawl space or basement when the wood comes into contact with the foundation walls or support piers. This treatment includes the joists, headers, sills and subflooring areas. Pretreatment of a slab on grade structure consists of treatment of the sill plate and two feet up on the wall studs and wood sheathing.

On wood where access is limited to one or two sides of wood members such as sills and plates on foundation walls, apply two coats of solution to exposed sides, allowing for a minimum of 20 minutes between applications.

Pretreatment is performed at a point during the construction process when the greatest access to all wood members is available. Typically 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, and plumbing.

4.3 Protection from Water

Since BORA-CARE is water soluble, treated wood shall be protected from rain and snow. For long term protection, exterior surfaces shall be coated with a water resistant paint or stain. Interior surfaces exposed to repeated moisture contact, such as shower stalls, bath houses, etc. shall be protected by a water resistant paint or stain.

This report is limited to the specific product and data and test reports submitted by the applicant in its application requesting this report. No independent tests were performed by the National Evaluation Service, Inc. (NES), and NES specifically does not make any warranty, either expressed or implied, as to any finding or other matter in this report or as to any product covered by this report. This disclaimer includes, but is not limited to, merchantability. This report is also subject to the limitation listed herein.

5.0 IDENTIFICATION

Each container of BORA-CARE® Termiticide, Insecticide and Fungicide covered by this report shall be labeled with the manufacturer's name/and or trademark and this National Evaluation Service evaluation report number, NER-617 for field identification.

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature, specifications, and installation instructions.

6.2 Test report, lab test of BORA-CARE treated wood and untreated wood exposed to subterranean termites, Formosan Subterranean Termite and Eastern Subterranean Termite, Ft. Lauderdale Research & Education Center, University of Florida, Document No. IRG/WP/1504, April 2, 1991, by Nan-Yao and Rudolf Scheffrahn.

6.3 Test report, lab test of oral toxicity of BORA-CARE against Formosan Subterranean Termite and Eastern Subterranean Termite, Ft. Lauderdale Research & Education Center, IFAS, University of Florida, May, 1993, Masahiko Tokoro and Nan-Yao Su.

6.4 Test report, January 1997 Progress Report, 57 months exposure, field evaluation of BORA-CARE treated wood the subterranean termite feeding and tubing near Gulfport, Mississippi, comparison of treated and untreated wood floor joist, Mississippi State University Forest Products Laboratory, Terry L. Amburgey.

6.5 Test report, January 1998 Progress Report, 73 months exposure, field evaluation of BORA-CARE treated wood the subterranean termite feeding and tubing near Gulfport, Mississippi, comparison of treated and untreated wood floor joist, Mississippi State University Forest Products Laboratory, Terry L. Amburgey.

6.6 Test report, January 2001 Progress Report, 110 months exposure, field evaluation of BORA-CARE treated wood the subterranean termite feeding and tubing near Gulfport, Mississippi, comparison of treated and untreated wood floor joist, Mississippi State University Forest Products Laboratory, Terry L. Amburgey.

6.7 Test report on efficacy of BORA-CARE applied to OSB, plywood, pressure treated wood and FRTW, June 12, 2000, Mississippi State University Forest Products Laboratory, Dr. Terry L. Amburgey and MS. S.V. Parikh.

7.0 CONDITIONS OF USE

The National Evaluation Service Committee finds that the BORA-CARE® Termiticide, Insecticide and Fungicide described in this report complies with or is a suitable alternate to that specified in the 2000 *International Building Code*© with 2001 Supplement, the 2000 *International Residential Code*© with 2001 Supplement, the *BOCA National Building Code/1999*, the 1999 *Standard Building Code*©, the 1997 *Uniform Building Code*™, and the 1998 *International One- and Two- Family Dwelling Code* subject to the following conditions:

7.1 This Evaluation Report and the manufacturer's published installation instructions, when required by the code official, shall be submitted at the time of permit application.

7.2 BORA-CARE shall be applied by applicators trained by the Nisus Corporation and shall be licensed pest control operators.

7.3 BORA-CARE shall be installed in accordance with the manufacturer's published installation instructions and this report.

7.4 In areas where a soil treatment/barrier termiticide treatment is required by the applicable code or local code official, BORA-CARE is applied only as a supplemental pretreatment and is not a replacement for required treatments or barriers.

7.5 BORA-CARE was evaluated only for resistance to subterranean termites.

7.6 BORA-CARE is water soluble and shall be protected as noted in Section 4.3 above.

7.7 BORA-CARE has not been evaluated as a treatment for resistance to termites on LVL products.

7.8 This report is subject to re-examination on a periodic basis. For information on the current status of this Evaluation Report, consult the NES Product Evaluation Listing or contact the NES.