

## PART 1 - GENERAL

*Specifier Note:* Nisus Corporation's Bora-Care®, when applied according to label instructions as a primary termite pretreatment, kills and prevents wood decay fungi, subterranean and Formosan termites, carpenter ants, wood-boring beetles and many other insects. When applied according to label instructions as a whole house treatment, it also kills and prevents drywood termites. Bora-Care is a "green" borate-based product that uses a patented glycol solution to penetrate wood and delivers years of long-term residual protection. It is non-corrosive and is easy to apply. It is available for above-ground, weather protected applications where termite protection or insect and decay resistance is required or recommended. Bora-Care is intended to be used for framing and other areas where the wood is not in direct contact with the ground and is continuously protected from water during its service life. Normal exposure to water during ordinary construction will not adversely affect the treatment. Bora-Care may be used in outdoor applications such as decks or outdoor structures, but the application of a water repellent or sealer is recommended, though not required. Retreatment for outdoor applications will be needed on a regular basis if no water repellent is applied.

### 1.01 SUMMARY

- A. Provide Bora-Care wood applied treatment for primary termite control, as herein specified.
- B. Limits of termite treatment are as follows:
  - 1. Bora-Care product application will be provided to wood structural components in contact with foundations and application to bath traps, plumbing penetration and certain foundation areas.

### 1.02 REFERENCES

- A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to the extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.
- B. American Wood-Preservers' Association (AWPA); *AWPA Standard M4-01: Standard for the Care of Preservative-Treated Wood Products*; 2001.
  - 1. Requires that a preservative be applied to any end cut to protect exposed wood not protected by pressure treatment (as in sill plates) to meet international building code requirements.
- C. International Residential Code (IRC) sections that mandate AWPA's *Standard M4* for end cut treatment:
  - 1. *Section R319: Protection Against Decay*
  - 2. *Section R319.1.1 Field Treatment [of End Cuts]*
  - 3. *Section R320: Protection Against Subterranean Termites*
  - 4. *Section R320.1.2 Field Treatment [of End Cuts]*; 2006.
- D. U.S. Green Building Council: *LEED® for Homes Rating System, SS 5: Nontoxic Pest Control*; 2008
  - 1. Green building program assigns a maximum of two program points for the use of nontoxic pest control methods, including a barrier treatment of all cellulosic building material with a borate product.
- E. U.S. Department of Housing and Urban Development (HUD)
  - 1. HUD Mortgagee Letter 99-03
  - 2. Form HUD-NPCA-99-A: *Subterranean Termite Treatment Builder's Guarantee*
  - 3. Form HUD-NPCA-99-B: *New Construction Subterranean Termite Soil Treatment Record*

**1.03 SYSTEM DESCRIPTION**

- A. Performance Requirements: Provides structural termite protection when applied according to the applicable sections of the U.S. Environmental Protection Agency registered label.

**1.04 RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

**1.05 SUBMITTALS**

- A. Product Data: Submit applicable manufacturer's technical data and application instructions from Nisus Corporation.

**1.06 QUALITY ASSURANCE**

- A. In addition to requirements of these specifications, comply with Nisus Corporation's instructions and recommendations for work, including preparation of structure and application.
- B. Engage a professional pest control operator, state licensed in accordance with regulations of governing authorities and trained in the application of Bora-Care wood applied termiticide treatment solution.
- C. Use only Bora-Care, a wood applied termiticide, which bears Federal registration number 64405-1 from the U.S. Environmental Protection Agency.

**1.07 JOB CONDITIONS**

- A. Restrictions: Treatment will be performed when access to all structural wood members and foundations is available. This is normally at the "dried-in" stage of construction when all structural wood and sheathing is in place and prior to installation of drywall, insulation, mechanical systems and electrical wiring. Comply with handling and application instructions of Bora-Care.

**1.08 SPECIFIC PRODUCT WARRANTY**

- A. Furnish written warranty certifying that the applied Bora-Care treatment will prevent infestation of subterranean termites and, that if subterranean termite activity is discovered during warranty period, Contractor will re-treat structure and repair or replace damage caused by termite infestation.

**PART 2 - PRODUCTS****2.01 BORA-CARE TERMITICIDE, INSECTICIDE & FUNGICIDE**

- A. Manufacturer: Nisus Corporation, 100 Nisus Drive, Rockford TN 37853, 1-800-264-0870
- B. Proprietary Product/System: Bora-Care Termiticide, Insecticide and Fungicide
- C. Termiticide requirements:
  - 1. Bora-Care is an EPA-registered primary termiticide treatment that complies with requirements of authorities having jurisdiction over such an application.
  - 2. Bora-Care will be provided in a concentrated formulation that dilutes with water or foaming agent.
  - 3. Bora-Care is registered by label as a primary treatment to prevent termite infestation.
  - 4. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use according to the Bora-Care's EPA registered label.

**2.02 PRODUCT SUBSTITUTIONS**

- A. No substitutions permitted.

**PART 3 - EXECUTION****3.01 MANUFACTURER'S INSTRUCTIONS**

- A. Compliance: Comply with Bora-Care's product data, including product literature, technical bulletins and U.S. EPA registered label.

**3.02 APPLICATION**

- A. Site Preparation: Remove foreign matter that could decrease thoroughness of treatment, such as sawdust, away from treatment surfaces. Move building materials that block or prevent product application to required treatment areas.
- B. Application Rates: Apply Bora-Care treatment by label directions to include:
1. The treatment of all structural wood and sill plates within 24 inches of contact with the foundation. Apply a second application to wood within treated area when only one or two surfaces are exposed.
  2. The treatment of all cellulosic sheathing within 24 inches of the foundation.
  3. The treatment of the concrete slab a minimum of 2 inches out from the wooden sill plate.
  4. The treatment of open bath traps at 8-16 ounces of treatment solution per square foot of bath trap with the additional treatment of a 12 inch wide band of treatment solution on the slab area surrounding the bath trap.
  5. The treatment of all pipe and plumbing penetrations with the treatment solution to a height of two feet and extending at least 6 inches out horizontally from the penetration onto slab surface.
  6. The treatment of the inside surface of crawlspace concrete or concrete block walls extending vertically up two feet from the soil.
  7. The treatment of the inside surface of basement concrete or concrete block walls extending vertically up two feet from the slab.
  8. Treat abutting slab areas and expansion joints to cover at least six inches of slab surface out from each side of joint or abutting slab connection.



Nisus Corporation • 100 Nisus Drive • Rockford, TN 37853 • 800.264.0870

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