

3-PART ARCHITECTURAL SPECIFICATION FOR BORA-CARE® COMMERCIAL FOR TERMITE CONTROL

Nisus Corporation

**SECTION 31 31 16
TERMITE CONTROL**

Nisus Corporation BORA-CARE® Commercial

(Specifier Note: The purpose of this guide specification is to assist the Specifier in correctly specifying termite control and its application. The Specifier needs to edit these guide specifications to fit the needs of each specific project. Contact a Nisus Corporation representative to assist in appropriate product selections. Throughout the guide specification, there are “Specifier Notes” to assist in the editing of the file. Brackets [] have been used to indicate when a selection is required.

References have been made within the text of the specification to MasterFormat 2016 Section numbers and titles. The Specifier needs to coordinate these numbers and titles with sections included for the specific project.

This guide is for commercial applications using a termiticide to protect structures from subterranean and Formosan termites.

Bora-Care® Commercial Termiticide is a “green” mineral derived borate-based EPA-registered product applied directly to the structure of a building as a primary termite barrier. It uses a patented glycol solution to create a continuous barrier of protection on concrete, masonry, metal/steel, wood, pipe penetrations, bath traps and other subterranean termite entry points. Bora-Care® Commercial is applied as a continuous horizontal and vertical application in a minimum two-foot band to all structural wood/metal, foundations, bath traps, and/or pipe protrusions. It provides the highest level of active ingredient against termites and is the only borate-based termiticide with product-specific long-term efficacy studies and application history against subterranean termites. Bora-Care® Commercial should not be used below-ground, or where treated exterior surfaces are not protected from weather, in direct contact with the ground or in continuous contact with water). This specification does not preempt EPA registered label directions.

SECTION 31 31 16
TERMITE CONTROL
Nisus Corporation BORA-CARE® Commercial

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Termiticide treatment of structure.

1.2 ACTION SUBMITTALS

- A. Refer to Section [01 33 00 Submittal Procedures] [Insert section number and title].
- B. Product Data: For each type of termite control product indicated. Include EPA-Registered Label for termiticide products.

(Specifier Note: DELETE article below if not specific to project. LEED projects should be addressed separately and specifically including templates of information satisfying CIR requirements and case studies of projects receiving favorable ruling.)

- C. LEED Submittals:

- 1. Product Data for Credit IDc1, For termiticide treatment of structure:
 - a. Provide documentation describing typical methods for termite prevention involving chemical pesticide treatments and describing alternative control. Include the advantages of one treatment over the other.
 - b. Provide documentation showing significant and measureable environmental effect and actual reduction in chemical use.
 - c. Provide statement of project commitment to eliminate future chemical use.

1.3 INFORMATIONAL SUBMITTALS

(Specifier Note: VERIFY licensing requirements with local authorities. DELETE "Qualification Data" paragraph below if not project specific.)

- A. Qualification Data: For licensed installer.

(Specifier Note: Bora-Care® Commercial is distinguished from other borate-based termiticides by its "product-specific" five-year efficacy data submitted to EPA and its labeling for application to concrete and other building materials.)

- B. Test Reports: Provide 5-year product specific efficacy studies, concrete studies and application history.
- C. Product Certificates.
- D. Termiticide Treatment Report: Include the following:

1. Date and time of application.
2. Quantity of undiluted termiticide used.
3. Dilutions, methods, volumes used, and rates of application.
4. Areas of application.
5. Areas not accessible.

E. Warranties: Sample of special warranties.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: A specialist who is licensed per regulations of authorities having jurisdiction to apply termite control treatment and products in jurisdiction where Project is located and who employs workers trained and approved by manufacturer to install manufacturer's products.
- B. Regulatory Requirements: Formulate and apply termiticides per the EPA-Registered Label.
- C. Source Limitations: Obtain termite control products from single source from single manufacturer.
- D. Pre-installation Conference: Conduct conference at Project site.

1.5 PROJECT CONDITIONS

- A. Coordinate application of termiticide treatment of structure with access to all structural wood members and foundations. Install termiticide during the dried-in phase after all structural framing and sheathing is in place and prior to installation of drywall, insulation, mechanical systems and electrical wiring.

(Specifier Note: DELETE "Warranty" article below if not specific to project.)

1.6 WARRANTY

(Specifier Note: COORDINATE paragraph below with division one sections. DELETE if not project specific.)

(Specifier Note: VERIFY warranty requirements with local authorities.)

- A. Refer to Section **[01 78 36 Warranties]** **[Insert section number and title]**.
- B. Special Warranty: Standard form, signed by Applicator and Contractor, certifying that termite control work, consisting of applied termiticide treatment, will prevent infestation of subterranean and Formosan termites. Installer agrees to re-treat structure with termiticide treatments, and repair or replace damage where subterranean and Formosan termite activity is discovered during warranty period as directed by warranty.
 1. Warranty Period: **[One][Five]** years from date of Substantial Completion.
 - a. Provide annual inspection of termite control work.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Nisus Corporation; 100 Nisus Drive; Rockford, TN 37853; Phone 800.264.0870; website www.nisuscorp.com

2.2 TERMITICIDE TREATMENT

(Specifier Note: Bora-Care® Commercial is distinguished from other borate-based termiticides by its "product-specific" five-year efficacy data submitted to EPA and its labeling for application to concrete and other building materials. If additional products are required for competitive procurement, contact Nisus Corporation for assistance in listing competitive products that may be available.)

- A. Provide an EPA-Registered termiticide, complying with requirements of authorities having jurisdiction, in an aqueous solution formulated to prevent termite infestation. Provide quantity required for application at the label volume and rate for the maximum termiticide concentration allowed for each specific use, per product's EPA-Registered Label.
 - 1. Basis-of-Design: Subject to compliance with requirements, provide Nisus Corporation; BORA-CARE® Commercial Termiticide [**or approved equal**].
 - a. Active Ingredient: 40% Disodium Octaborate Tetrahydrate (DOT)
 - b. Penetrant: Patented Glycol mixture.

PART 3 - EXECUTION

3.1 GENERAL

- A. Comply with the most stringent requirements of authorities having jurisdiction and with manufacturer's EPA-Registered Label for products.

3.2 TERMITICIDE TREATMENT TO STRUCTURE APPLICATION

- A. Examine substrates, areas, and conditions, with applicator present, for compliance with requirements for interfaces with slab and foundation work, utility installation, and other conditions affecting performance of termite control.
- B. Proceed with application only after unsatisfactory conditions have been corrected.
- C. Termiticide Treatment Preparation: Remove foreign matter and impermeable materials that could decrease treatment effectiveness on areas to be treated.
- D. Application: Mix termiticide treatment solution to a uniform consistency. Provide quantity required for application at the label volume and rate for the maximum specified concentration of termiticide, per manufacturer's EPA-Registered Label. Apply to the following so that a continuous horizontal and vertical termiticide barrier or treated zone is established at the foundation of building construction. Distribute treatment evenly.

(Specifier Note: Items below must be treated. DELETE application paragraphs below only if area is not part of the structure.)

1. Structural Wood and Sill Plates: Treat all structural concrete, block, steel & wood and sill plates up 24 inches from contact with foundation as required by label.
2. Sheathing: Treat all cellulosic sheathing within 24 inches of the foundation.
3. Concrete Slab: Treat concrete slab a minimum of 2-8 inches out from all sill plates.
4. Bath Traps: Treat open bath traps and surrounding 12 inches of slab area.
5. Penetrations: Treat all pipe and plumbing penetrations to a height of 24 inches and a minimum of 6 inches surrounding penetration.
6. Crawlspace: Treat inside surface of crawlspace concrete or concrete block walls extending up vertically 24 inches from soil.
7. Crawlspace/Basement Flooring: Treat all sill plates, box headers and joists 24 inches out from contact with foundation walls or piers.
8. Basement: Treat inside surface of basement concrete or concrete block walls extending up vertically 24 inches from slab.
9. Expansion Joint and Abutting Connections: Treat abutting slab areas and expansion joints a minimum of 6 inches out on each side of joint or abutting slab connection.

END OF SECTION