

Methods of Drywood Termite Control

| | Vikane* Gas Fumigant | PT 270 | Borates | Blizzard System | Electro-Gun | Microwave | Thermal Pest Eradication |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methodology | Entire structure is tarped and thoroughly fumigated with sulfuryl fluoride, killing all detected and undetected termites. | Detected and accessible colonies are spot treated by drilling small holes in which PT270, containing chlorpyrifos, is injected. | Detected and accessible colonies are spot treated by frilling small holes in which borates are injected or surface applied. | Detected colonies that are accessible to the operator are spot treated with liquid nitrogen, which is injected around infested wood, cooling it to -20 ° F for five minutes. | Detected colonies that are accessible to the applicator are spot treated with high-voltage, high-frequency current, which kills termites in localized area. | Detected colonies that are accessible to the operator are spot treated. Reflective material is placed on outside walls. Microwave energy, which either heats wood or heats termites, kills termites in localized area. | Temperature inside structure is raised with propane heaters to 140° F – 150° F for several hours in order to raise internal wood temperatures to 130° F for 30 minutes ; requires tarping to treat structure. |
| Efficacy | Efficacy confirmed by more than 20 years of university research , referred journal articles and published reports. | Efficacy constrained by the ability to get PT270 to infested areas; third party researcher, refereed journal articles support efficacy claims when contact occurs. | Limited data exists to support efficacy claims | Limited data exists to support efficacy claims | Limited data exists to support efficacy claims | Limited data exists to support efficacy claims | Limited data exists to support efficacy claims |
| Extent of treatment | All infestations in structure. | Limited to detected and accessible infestations only | Limited to detected and accessible infestations only | Limited to detected and accessible infestations only | Limited to detected and accessible infestations only; excessive moisture or metal in walls limits control. | Limited to detected and accessible infestations only; metal in walls limits control. | Detected infestations or entire structure; control is limited by structural features that retard heat distribution. |
| Risk of failure | When properly used, risk of failure is nearly non-existent. | Control of detected termites can vary. No control of undetected termites. | Control of detected termites can vary. No control of undetected termites. | Control of detected termites can vary. No control of undetected termites. | Control of detected termites can vary. No control of undetected termites. | Control of detected termites can vary. No control of undetected termites. | Control of detected termites can vary. No control of undetected termites. |
| Vacation of Structure | Homeowners, pets and plants must vacate structure during fumigation. Re-occupancy post-fumigation can occur following 6-8 hours of aeration and after the fumigator has approved the building for re-entry. | Homeowners, pets and plants are not required to vacate structure. | Homeowners, pets and plants are not required to vacate structure. | Homeowners, pets and plants are not required to vacate are being treated. | Homeowners, pets and plants are not required to vacate structure. | Homeowners, pets and plants are not required to vacate immediate treatment area. | Homeowners, pets and plants must vacate area or entire structure during treatment. |
| Possibility of damage | None when used according to label ;improper tarping may cause damage. | Small holes in walls may need to be repaired. | Small holes in walls may need to be repaired. | Potential for frozen pipes and other materials. | Electronic equipment and wall-mounted mirrors may be damaged. | Fire hazard; heat generated may damage some surfaces. | Fire hazard; heat may damage electronics, computers, plastic blinds, photo materials, videotapes, compact discs, plants, batteries, foods, medicines, cosmetics, etc. Pianos and others stringed instruments may lose tuning. |
| Homeowner safety | Gas dissipates rapidly; accurate monitoring equipment is used to reestablish re-entry. | Drill and treat application poses no risk of human exposure or problems. | Drill and treat application poses no risk of human exposure or problems. | Safety is unlikely to be an issue if homeowner and pets vacate treated area. | Homeowner safety is unlikely to be an issue if homeowner and pets vacate treated area. | Reflective material on outside walls is required to protect passersby. | Potentially dangerous temperatures. |