

# TOTALITY™

## WOOD TREATMENT

For use by individuals or firms licensed or registered by the State to apply wood preservation products. When used as a termiticide, individuals/firms must be licensed by the state to apply this product. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the pest control regulatory agency of your state prior to initial use of this product.

For the protection of wood and other cellulosic materials against subterranean termites & other wood destroying insects in commercial, industrial, institutional, public, and residential buildings.

EPA Reg. No. 279-3281

EPA Est. No. 279-NY-1

### Active Ingredient

Bifenthrin*	23.4%
Other Ingredients**	76.6%
	100.0%

\* Cis isomers 97% minimum, trans isomers 3% maximum;  
\*\*Contains petroleum distillates

Totality Wood Treatment contains 2 pounds active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING

See other panels for additional precautionary information.



FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104

Net Contents: 1 Quart

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not give any liquids to the person.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person</li> </ul>
<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 respirations, preferably by mouth-to-mouth, if possible</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes</li> <li>• Call a poison control center or doctor for treatment advice</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> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
HOTLINE NUMBER	
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)-331-3148 for emergency assistance	
NOTE TO PHYSICIAN	
Pesticide hotline (800) 858-7378. This product is a pyrethroid. This product also contains aromatic hydrocarbons. Because of the risk of hydrocarbon pneumonitis if even tiny amounts are aspirated into the lung during emesis, consideration should be given to gastric lavage with endotracheal tube in place. Treatment is symptomatic and supportive. Animal and vegetable fats, milk, cream, and alcohol may increase absorption and should not be administered.	
For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).	

## PRECAUTIONARY STATEMENTS

### Hazards to Humans (and Domestic Animals)

#### Warning

May be fatal if swallowed. Causes skin irritation and moderate eye irritation. Do not get on skin or on clothing. Avoid breathing vapors or spray mist, and contact with eyes. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash contaminated clothing before reuse.

#### Personal Protective Equipment

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved coveralls worn over a minimum of short-sleeved shirt and short pants, socks, footwear impervious to aromatic solvents (neoprene or nitrile butadiene rubber), chemical-resistant gloves and protective eyewear (goggles, face shield, or safety glasses with front, brow, and temple protection). In addition, all pesticide handlers must wear a respiratory protection device<sup>1</sup> when handling the concentrate or when working in a non-ventilated space.

1. A NIOSH approved respirator with an organic vapor (OV) cartridge with a combination R or P filter, with NIOSH approval number prefix TC-84A; or a NIOSH approved gas mask with a canister with NIOSH approval number prefix TC-14G; or a NIOSH approved powered air purifying respirator with organic vapor (OV) cartridge and combination HE filter with NIOSH approval number prefix TC-23C.

After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer sys-

tem, or an in-line injector system shirt, pants, socks, shoes and water-proof gloves are sufficient. Wood can be safely handled without the use of protective equipment once dry. In addition, all pesticide handlers must wear a respiratory protection device and protective eyewear when working in a non-ventilated space.

Individuals entering treatment vessels and related equipment that are contaminated with the wood treatment solution must wear protective clothing as indicated above. OSHA confined space entry procedures must be followed. Protective clothing must be changed when it shows of contamination.

## Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates.

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

## Physical/Chemical Hazards

Do not use or store near heat or open flame. Do not apply water-based dilutions of **Totality Wood Treatment** to electrical conduits, motor housings, junction boxes, switch boxes or other **electrical equipment because of possible shock hazard.**

## DIRECTIONS FOR USE

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

This product is not a soil termiticide. Do not use to directly treat soil. Prior to using this product, consult with your state regulatory agency to see if they require additional qualifications for the person applying this product.

Do not use for new construction treatments if the total linear footage of the cellulose base plates is less than 60% of the total linear footage of all base plates 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, Totality Wood Treatment must be applied to all other exterior construction materials, including brick or block, to a height of 2 feet and extended out onto the slab at a minimum of 2 inches to a maximum of 8 inches.

Where a soil treatment/barrier termiticide has been applied and/or termite bait system installed, this product may be applied as an additional treatment to protect wood from subterranean termites.

### Use Directions for Multi-Dose Container

1. Remove the measuring chamber cap and induction seal. Replace the cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.

For multiple dose measuring: Remove fill chamber cap and dispense according to markings on side of bottle.

## Dilution & Mixing Instructions

### Mixing

#### For Preventative Wood Protection Applications and Applications to Control Existing Infestations of Wood-in-Place

Dilute Totality Wood Treatment in the following manner: Fill spray tank 1/4 to 1/3 full with water. Add amount of Totality Wood Treatment as indicated in the instructions for the appropriate application method. Shake and agitate small volume sprayers once filled. For larger spray units start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes. Totality Wood Treatment may also be mixed into full tanks of water, but requires agitation to insure uniformity of the emulsion.

#### For Industrial Wood Treatment

Add the required quantity of Totality Wood Treatment to a diluent in the holding tank, or glue mixer and mix thoroughly according to the table listed below. Maintain agitation during both mixing and application.

### Tank Mixing

Totality Wood Treatment can be tank mixed with other pesticide products as necessary and in accordance with the more restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing. The physical compatibility of Totality Wood Treatment may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

## STORAGE AND DISPOSAL

### Pesticide Storage

Do not contaminate water, food or feed by storage or disposal. If crystals are observed, warm material to above 60°F by placing container in warm location.

Shake or roll container periodically to redissolve solids. Do not use external source of heat for warming container.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

**In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills, Call CHEMTREC (Transportation and Spills): (800) 424-9300.**

**To confine spill:** if liquid, dike surrounding area or absorb with sand, cat litter, commercial clay, or gel absorbent. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

### Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional Office for guidance.

### Container Handling

**Plastic Container: Non-refillable container.** Do not reuse or refill this container. Triple rinse as follows: Empty the contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or incineration.

**Returnable/Refillable Containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

## Preventative Wood Protection Applications

### Product Instructions

Totality Wood Treatment forms a repellent barrier that protects wood and other cellulose materials via spraying, brushing, and foaming applications.

The application of Totality Wood Treatment to both wood and wood based products as specified in the application instructions will protect treated products from damage by drywood and subterranean termites (including Formosan termites), carpenter ants, ambrosia beetles, powder-post beetles, false powder-post beetles, deathwatch beetles, and old-house borers. Complete coverage of wood is essential for optimal protection from wood-destroying insects.

Totality Wood Treatment is intended to be applied only to bare wood, plywood, particle board or other cellulose building materials in the absence of paint, stains or sealers (such materials will prevent Totality Wood Treatment from properly adhering to cellulose surfaces).

In areas where soil pretreatment is required by law, Totality Wood Treatment may be applied as a supplemental treatment to protect wood from subterranean termites and other listed wood-destroying insects.

In the state of Louisiana, use of Totality Wood Treatment must adhere to the applicable standards and specifications as listed in the Louisiana Administrative Code, Title 7, Part XXV, "Structural Pest Control". Use of Totality Wood Treatment as a termiticide during any stage of construction shall be considered a pre-construction treatment. Additionally, use of Totality Wood Treatment in Louisiana must adhere to the standards and specifications listed in §141, Part M, "Requirements for Borates Pre-Construction Treatment". The word 'borate' is interchangeable for 'Totality Wood Treatment' in the instructions in this section.

### Amount of Totality Wood Treatment to premix with water

For small volume mixtures using a handheld compressed air or backpack sprayer.

Where visible indication of application is needed or desired, include an appropriately labeled dye in the tank mix when preparing solution.

Solution Concentration (w/w%)	Final Tank Volume			
	1 gal Water	2.5 gal Water	5 gal Water	10 gal Water
0.6%	3.2 fl oz	8.0 fl oz	16 fl oz	32 fl oz

### Wood Preparation

For best results, apply Totality Wood Treatment solution to dry wood. Wood absorbency of Totality Wood Treatment solution will vary depending on the wood species, relative moisture and degree of sapwood in the wood being treated. Where control of rotting or staining organisms is desired, an appropriate fungicide will need to be added to the treatment solution or applied separately.

Milling or cutting wood may expose untreated wood to insect attack. Any cuts made to treated wood will expose untreated wood and must be carefully treated. Cut ends need to be treated with a brush or spray application.

Prior to applying Totality Wood Treatment, carefully clean and clear the area to be treated of any sawdust, debris, or cellulose material that may inhibit Totality Wood Treatment application to target surfaces.

### Application Instructions

It is essential that surfaces of lumber or other cellulosic materials that are susceptible to wood-destroying insect attack be treated. **Note:** Wood treated with this product is not to be used in water immersion applications. Do not treat wood that will come in contact with raw agricultural commodities, food, feed or bodies of water.

For best results, apply Totality Wood Treatment to wood or other cellulosic materials during the dried-in stage of construction. Apply when access to wooden or cellulosic components is optimized and when no further framing modifications, cuts, notches, or access holes (for plumbing, ventilation, electrical etc.) will be made, such as after final framing inspection. Treating prior to the installation of other construction components that may hinder proper treatment (insulation, electrical, heating and cooling systems, exterior wraps, etc.) will help ensure more complete protection.

If using a surface application method for Totality Wood Treatment, Totality Wood Treatment must be applied at a minimum rate of 3.2 oz per 1 gallon of water (0.6% solution). Apply one coat of diluted Totality Wood Treatment solution up to the point of runoff by brush, spray or foam application. Full absorption of the 0.6% sprayed solution will vary on the wood species, relative moisture, and degree of sapwood in the wood being treated. At the level of surface saturation, a 0.6% dilution applied via surface application provides the optimal level of protection for treated wood.

Treat all wood in direct contact with foundations, interior and exterior wall sill plates, wood or cellulosic sheathing, floor joists, and sub-flooring. Additionally, all wood within two feet of any potential access point by termites must be treated by applying an uninterrupted band of at least 24 inches wide from any potential access points including concrete, block or brick walls and floor exposed to soil including wood exposed to vertical access from the soil, to include sills, plates, floor joists, piers, girders, subfloors, exterior wall plywood or oriented strand board (OSB), wooden shingles, decking and garage framing.

Additionally, all building materials containing cellulose and wood materials as well as the floor upon which it is attached must be treated in a two foot band. Within that area, concentrate treatments in areas susceptible to termite attack including sill plates, floor plates, floor joists, piers, beams and subfloors. Pay close attention to each joint. Treat all wood in plumbing walls and apply to any wood in bath traps as well as wood adjacent to pipes, electrical conduits and duct penetrations in order to provide a minimum 24 inch wide band of treatment.

For buildings constructed on slabs, treat all wood and cellulosic components in contact with the slab, including all interior and exterior wall studs and sheathing materials. Apply the Totality Wood Treatment solution to all base sill plates, as well as the bottom 24 inches of all vertical studs and cellulose siding on each exterior wall and interior walls that rest on a slab as well as exposed cellulose floor boards along edge of foundation or support piers.

### Applications to Control Existing Infestations of Wood-in-Place

#### Product Instructions

Totality Wood Treatment will control existing infestations of drywood and subterranean termites (including Formosan termites), carpenter ants, carpenter bees, powder-post beetles, false powder-post beetles, death-watch beetles, and old-house borers in wood-in-place.

**Note:** This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation. A spray concentration of 0.06% (as listed in the dilution chart below) has not been shown to provide long-term structural protection.

#### Attention Use Restrictions

Do not apply to pets, crops, or sources of electricity.

Firewood is not to be treated.

Use only in well ventilated areas.

During any application to overhead interior areas of structure, cover surfaces below with plastic sheeting or similar material.

Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies.

Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.

Do not treat areas where food is exposed.

During indoor surface applications do not allow dripping or run-off to occur.

Do not apply this pesticide in livestock buildings (barns).

Do not apply a broadcast application to interior surfaces of homes.

Not for use in Federally inspected meat and poultry plants.

**Important:** Do not apply emulsion until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these structural elements. Do not apply into electrical fixtures, switches, or sockets.

#### Amount of Totality Wood Treatment to premix with water

Where indication of proper application is needed or desired, include an appropriately labeled dye in the tank mix when preparing solution.

Amount of Totality Wood Treatment (Gallons except where noted)			
Emulsion Concentration	Amount of Totality Wood Treatment	Amount of Water	Desired Gallons of Finished Emulsion
0.06%	0.32 oz	127.68 oz.	1
	1.6 oz	4.99	5
	3.2 oz.	9.98	10
	8 oz.	24.94	25
	0.5 qt.	49.88	50
	0.75 qt.	74.81	75
	1 qt.	99.75	100
	1.5 qt.	149.62	150
	2 qt.	199.5	200

#### Foam Applications

Totality Wood Treatment emulsion may be converted to a foam with expansion characteristics from 2 to 40 times. The emulsion may be converted to a foam and the foam used to control or prevent termite infestations.

Foam applications are generally a good supplement to liquid treatments, but may also be used alone. Foam applications can be used to treat areas where a spray would be difficult to apply, such as behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to insure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid emulsion volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations of the foam manufacturer and the foaming equipment manufacturer.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

#### Application Instructions

Apply a 0.06% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Paint on, injection, foam, or fan spray applications may also be used. Plastic sheeting must be placed immediately below interior overhead areas that are spot treated except for soil surfaces in crawl spaces. Application may be made to inaccessible areas by drilling, and then injecting emulsion with a crack and crevice injector into the damaged wood or void spaces.

Termite carton nests in building voids may be injected with a 0.06% emulsion. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

In the home, all food processing surfaces and utensils in the treatment area must be covered during treatment or thoroughly washed before re-use. Remove pets, birds, and cover aquariums before spraying. Do not permit humans or pets to contact treated surfaces until the spray has dried.

During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.

Wear protective clothing, unvented goggles, gloves and respirator when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.

Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms but excluding areas where food may be prepared or held.

In the home, cover all food handling surfaces and cover or remove all food and cooking utensils, or wash thoroughly after treatment. Non-



food/feed areas of food/feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers) entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning).

## Industrial Wood Treatment

### Product Instructions

Totality Wood Treatment is a dual emulsifiable concentrate that may be diluted with either water or diluents commonly used in wood preservation including white spirits. Totality Wood Treatment can be used to treat wood to be used in areas where protection from weather exists, including lumber and engineered woods, including for use in framing lumber, sillplates, millwork, pallets, wooden containers, and processed wood products. The application of Totality Wood Treatment to both timber and timber based products as specified in the directions for use table will protect treated products from termites, carpenter ants, powder-post beetles, false powder-post beetles, deathwatch beetles, and old-house borers. Totality Wood Treatment is intended for use in commercial manufacturing or industrial wood processing or assembly plants only, and may be used in dipping, brushing, spraying, glue-line or pressure treatments. For longer control, apply by pressure treatment.

Complete coverage of wood is essential for optimal insect control. In applications by surface treatment including dipping, spraying, or brushing, milling or cutting may expose untreated wood for insect attack. Cut ends need to be treated with brush application. Where control of rotting or staining organisms is desired, an appropriate fungicide will need to be added to the treatment solution or applied separately.

### Amount of Totality Wood Treatment to premix with water

For large volume mixtures including when using a power sprayer.

Where indication of proper application is needed or desired, include an appropriately labeled dye in the tank mix when preparing solution.

Desired Gallons of Finished Spray	Amount of Totality Wood Treatment (Emulsion Concentration %)		
	0.01%	0.06%	0.12%
25	1.3 oz.	8 oz.	0.5 qt
50	2.6 oz.	0.5 qt.	1.0 qt.
75	3.9 oz.	0.75 qt.	1.5 qt.
100	5.2 oz	1.0 qt.	2.0 qt.
150	7.8 oz	1.5 qt.	3.0 qt.
200	10.4 oz.	2.0 qt.	4.0 qt.

### Wood Preparation

For best results, apply Totality Wood Treatment solution to dry wood. Wood absorbency of Totality Wood Treatment solution will vary depending on the wood species, relative moisture and degree of sapwood in the wood being treated. Where control of rotting or staining organisms is desired, an appropriate fungicide will need to be added to the treatment solution or applied separately.

Milling or Cutting lumber may expose untreated wood to insect attack. Any cuts made to treated wood will expose untreated wood and must be carefully treated. Cut ends need to be treated with a brush or spray application.

### Application Directions

To control wood infesting insects treat wood with appropriate dilution of bifenthrin in treatment solution, up to 0.12%. Monitoring of the treating solution may be necessary to ensure that the desired level of bifenthrin is maintained, particularly where the treating solution may be used for an extended period of time.

### Dip Treatment

Wood infesting insects can be controlled in wood products (including freshly cut timber), wooden containers, millwork, pallets, and processed wood products by dipping. Using solution concentration rates of up to 0.06% bifenthrin, final residue levels must be greater than or equal to 50 mg bifenthrin/square meter. The wood must be totally submerged in the dilution until thoroughly wet (minimum 3 minutes) and then allowed to dry in a suitable location. Dipping solutions must be agitated if left unused for a period of time (i.e. overnight). For optimal performance and economy avoid heavy buildup of wood debris in dip tanks as bifenthrin may bind to the debris and thus reduce the strength of the dilution.

### Spray Treatment and Brush Treatment

Wood infesting insects can be controlled in wood products (including freshly cut timber), wooden containers, millwork, pallets, and processed wood products by spraying or brushing. Using solution concentration rates of up to 0.06% bifenthrin, final wood residue levels must be greater than or equal to 50 mg bifenthrin/square meter. The wood must be sprayed or brushed thoroughly, including backs and ends, with the treatment mixture. Apply to surfaces, voids, and channels where insects may be located. When spraying, use a sprayer capable of delivering a coarse, low-pressure (about 20 psig) spray. On logs, ensure thorough bark coverage as untreated areas are subject to insect attack. When treating processed wood products, Totality Wood Treatment may be sprayed onto wood chips or mixed with a compatible adhesive (including spraying, rolling, or blending). Test compatibility and application on a small scale before full-scale production.

### Pressure Treatment

For maximum, long-term control of wood infesting insects in products (including framing lumber and sillplates), wooden containers, millwork,

pallets, processed wood products, apply Totality Wood Treatment by pressure treatment. Treat to attain a final wood residue of greater than or equal to 64 g bifenthrin/cubic meter. Totality Wood Treatment can be used in combination with other treatment solutions including disodium octoborate tetrahydrate (DOT) where compatibility is the responsibility of the formulator.

### Glueline Treatment

Engineered products including composite paneling, OSB, plywood, and glue-laminated beams (glulam) can be treated by mixing in the appropriate amount of Totality Wood Treatment when preparing the glue resin mix to obtain a final wood residue level of greater than or equal to 20 g bifenthrin/square meter. Mode of treatment and determination of compatibility with resin and composite manufacturing method is the responsibility of the formulator.

### Treatment for Unexposed Wood

Totality Wood Treatment can be used for applications where the treated wood is either unexposed to weather, including in millwork, sillplates, framing lumber, composite paneling and engineered floor joists, glue-laminated (glulam) beams. Mode of treatment and determination of compatibility with resin and composite manufacturing method is the responsibility of the formulator.

**Note:** Wood treated with this product is only for above ground uses and is not to be used in water immersion applications. Do not treat wood that will come in contact with raw agricultural commodities, food, feed or water.

Target Use	Pest	Rate	Comments
Sawn and round timbers for treatment by vacuum or vacuum pressure impregnation for use in Hazard Class H1	Powderpost Beetles	0.5 oz/100 lb timber	<ol style="list-style-type: none"> <li>1. Calculate the uptake of suitable diluent (e.g. organic solvents, water, or water repellent) per 100 lb of timber.</li> <li>2. Add the appropriate amount of Totality Wood Treatment to the diluent to achieve recommended loadings.</li> <li>3. Apply to timber through vacuum or vacuum-pressure treatment to ensure compliance with AWPA standards</li> <li>4. The minimum individual retention is 0.0018% mass/mass</li> </ol>
Sawn and round timbers for treatment by vacuum or vacuum pressure impregnation for use in Hazard Class H2	All termites (including <i>Coptotermes formosanus</i> )	1.7 oz/100 lb timber	<ol style="list-style-type: none"> <li>1. Calculate the uptake of suitable diluent (e.g. organic solvents, water, or water repellent) per 100 lb of timber.</li> <li>2. Add the appropriate amount of Totality Wood Treatment to the diluent to achieve recommended loadings.</li> <li>3. Apply to timber through vacuum or vacuum-pressure treatment to ensure compliance with AWPA standards</li> <li>4. The minimum individual retention is 0.0024% mass/mass</li> </ol>
Framing timbers for surface spray application or dipping in Hazard Class H2 with no exposure to sunlight	All termites (including <i>Coptotermes formosanus</i> )	0.2 oz/100 ft <sup>2</sup> of surface area	<ol style="list-style-type: none"> <li>1. Calculate the uptake of suitable diluent (e.g. organic solvents, water, or water repellent) per ft<sup>3</sup> of timber.</li> <li>2. Calculate the surface area of 1 ft<sup>3</sup> of product to treat</li> <li>3. Add the appropriate amount of Totality Wood Treatment to the diluent to achieve recommended loadings.</li> <li>4. Apply to timber through spray system or by dipping to ensure recommended rates</li> <li>5. The minimum individual piece retention is 1.7 g/100 ft<sup>3</sup></li> </ol>
Processing & manufacture of softwood plywood in Hazard Class H2	All termites (including <i>Coptotermes formosanus</i> )	10 oz/100 ft <sup>3</sup> dry veneer	<ol style="list-style-type: none"> <li>1. Calculate the uptake of solution by veneers.</li> <li>2. Dilute Totality Wood Treatment as required to ensure minimum loadings of 0.024% mass/mass of veneers.</li> <li>3. Following the manufacture of the plywood panel the loading of bifenthrin in the panel must be a minimum of 0.024% mass/mass.</li> </ol>

Target Use	Pest	Rate	Comments
Glueline treatment of softwood plywood for use in Hazard Class H2	All termites (including <i>Coptotermes formosanus</i> )	0.1 oz/ ft <sup>3</sup> of the glueline	1. Calculate the usage of the glue per cubic foot of panel. 2. Add Totality Wood Treatment to the glue during preparation of the mix. 3. Following the manufacture of the plywood panel the loading of bifenthrin in the panel must be a minimum of 0.024% mass/mass.
Softwood particle & strand based boards in Hazard Class H2	All termites (including <i>Coptotermes formosanus</i> )	0.3 oz/ 100 lb fiber	1. Add sufficient Totality Wood Treatment into the glue to achieve a retention of 0.024% mass/mass in the finished board. Alternatively particles or strands can be treated before manufacture. Where Totality Wood Treatment is to be added to the glue mix the pH of the finished mix must not exceed 9.5.

### Conditions of Sale and Limitation of Warranty and Liability:

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.**

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