Red River WDG®

TERMITICIDE-INSECTICIDE

U. S. Patent No. 5,094,028

EPA Reg. No. FIFRA Exempt EPA Est. #: 51092-AZ-004

RED RIVER WDG® is an inorganic, non-repellant, special local needs (SLN) product, and is the first environmentally friendly termiticide for both above and below ground. By being an inorganic product, **RED RIVER WDG®** does not 'break down' like conventional organic chemistries, and thus, it provides a stronger and more durable defense barrier to wood destroying pests.

Modes of Action: Subterranean Termites molt every 6 weeks, allowing their exoskeletons to become highly susceptible to **RED RIVER WDG's** desiccating action. Also, the active ingredient in **RED RIVER WDG®** causes a breakdown in subterranean termites' dendrite levels, thus, creating a disconnect within the nervous system.

RED RIVER WDG® withstands up to 3/4 inches of water without any detriment to its effectiveness. Also, it does not move laterally or vertically which allows up to a 5 day buffer between soil application and concrete pour. As for effectiveness, current U.S. Forest Service (USFS) studies demonstrate a 98% efficacy!

RED RIVER WDG®

ACTIVE INGREDIENT:

Dendritis 98.1%

INERT INGREDIENTS:

Shale..... 1.9%

TOTAL: 100.0%

CLASS: .....Inorganic

RATE: .....2.15 % & 4.3%

SIGNAL WORD: ..... Caution

- Odorless
- Does not 'break down' like conventional organic chemistries
- Up to a 5 day buffer between soil application and concrete pour
- Up to 3/4 inches of water has no effect
- Does not move laterally or vertically
- Current Forest Service studies demonstrate a 98% efficacy

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RED RIVER WDG® - Studies Conducted by USFS on the Sonoran Desert, Santa Rita Experiment Range, Southern Arizona.

Studies commenced in 1998 and were completed by 2002 (60) months. Testing was conducted on concretes slabs and/or concrete blocks, with application rates ranging from 0.75 to 1.5 lbs. per 10 sq. ft. In 98% of the results, soil was not penetrated and no termite activity was found in any test.

The tables below illustrate the results.

Table 1. Percentage penetration through soil treated with Dendritis and termite activity on experiment site.

Treatment No.[1]	Dendritis Concentration lbs. per gal. (gallons per 10 sq. ft.)	Percentage of Treated Soil Not Penetrated non-cumulative, months after treatment			
		1998 12 months	2000 38 months	2001 48 months	2002 60 months
102S CB	0.75 (2 gal./10ft^2) (1.54 M)^3	100	100	100	100
103S CS	0.75 (2 gal./10ft^2)	100	100	100	100
106S CB	1.4 (4 gal./10ft^2) (3.08 M)	80 NA	90 NA	100	100
107S CS	1.5 (4 gal./10ft^2)	100	100	100	100

[1] CB = concrete block; CS = concrete slab; tests initiated April 1997
A = Active termites observed feeding on bait wood; NA = no termite activity
M = chemical molarity of the dendritis solution

Table 2. Average ASTM (American Society for Testing & Materials) damage to pine blocks in plots penetrated by termites

Treatment No.[1]	Dendritis Concentration Lbs. per gal. (gallons per 10 sq. ft.)	ASTM Damage Ratings			
		1998 12 months	2000 38 months	2001 48 months	2002 60 months
102S CB	0.75 (2 gal./10ft^2) (1.54 M)^3	NA	NA	NA	NA
103S CS	0.75 (2 gal./10ft^2)	NA	NA	NA	NA
106S CB	1.4 (4 gal./10ft^2) (3.08 M)	7.0	4.0	NA	NA
107S CS	1.5 (4 gal./10ft^2)	NA	NA	NA	NA

[1] CB = concrete block; CS = concrete slab; tests initiated April 1997
ASTM damage rating: 10 = sound; 9 = trace of attack; 7 = moderate attack; 4= heavy attack; 0 = failure / destruction by termite attack
NA = no termite attack (plots that were not penetrated by termites)

Table 3. Percentage of Dendritis plots (a-j)[1] penetrated by subterranean termites in (A) concrete slabs, (B) ground board tests, and (C) controls by concentration and months. (GP)

Treatment No.	Dendritis Concentration Lbs. per gal. (gallons per 10 sq. ft.)	Arizona					
		1998 12 months	1999 25 months	2000 38 months	2001 48 months	2002 60 months	Cum
Concrete Slabs							
103S	0.75 (2 gal./10ft^2) (1.54 M)^3	0	10	0	0	10	10
107S	1.4 (4 gal./10ft^2)	0	0	10	0	10	10
Concrete Blocks							
102S	0.75 (2 gal./10ft^2) (1.54 M)	0	10	0	0	10	10
1076S	1.4 (4 gal./10ft^2) (3.08 M)	20	20	10	0	0	20

Table 4. Damage rating of wood vs. number of Dendritis plots penetrated by termites (in parenthesis) by concentration and months (GP)

Treatment No.	Dendritis Concentration Lbs. per gal. (gallons per 10 sq. ft.)	Arizona				
		1998 12 months	1999 25 months	2000 38 months	2001 48 months	2002 60 months
Concrete Slabs						
103S	0.75 (2 gal./10ft^2) (1.54 M)^3	NA	3(1)	NA	NA	NA
107S	1.4 (4 gal./10ft^2)	NA0	NA	2(1)	NA	NA
Concrete Blocks						
102S	0.75 (2 gal./10ft^2) (1.54 M)	NA	3(1)	NA	NA	NA
1076S	1.4 (4 gal./10ft^2) (3.08 M)	3(2)	3(2)	4(1)	NA	NA