



Termites

Order: Blattodea

Super Family: Termitidae

Types and Difference between Termites

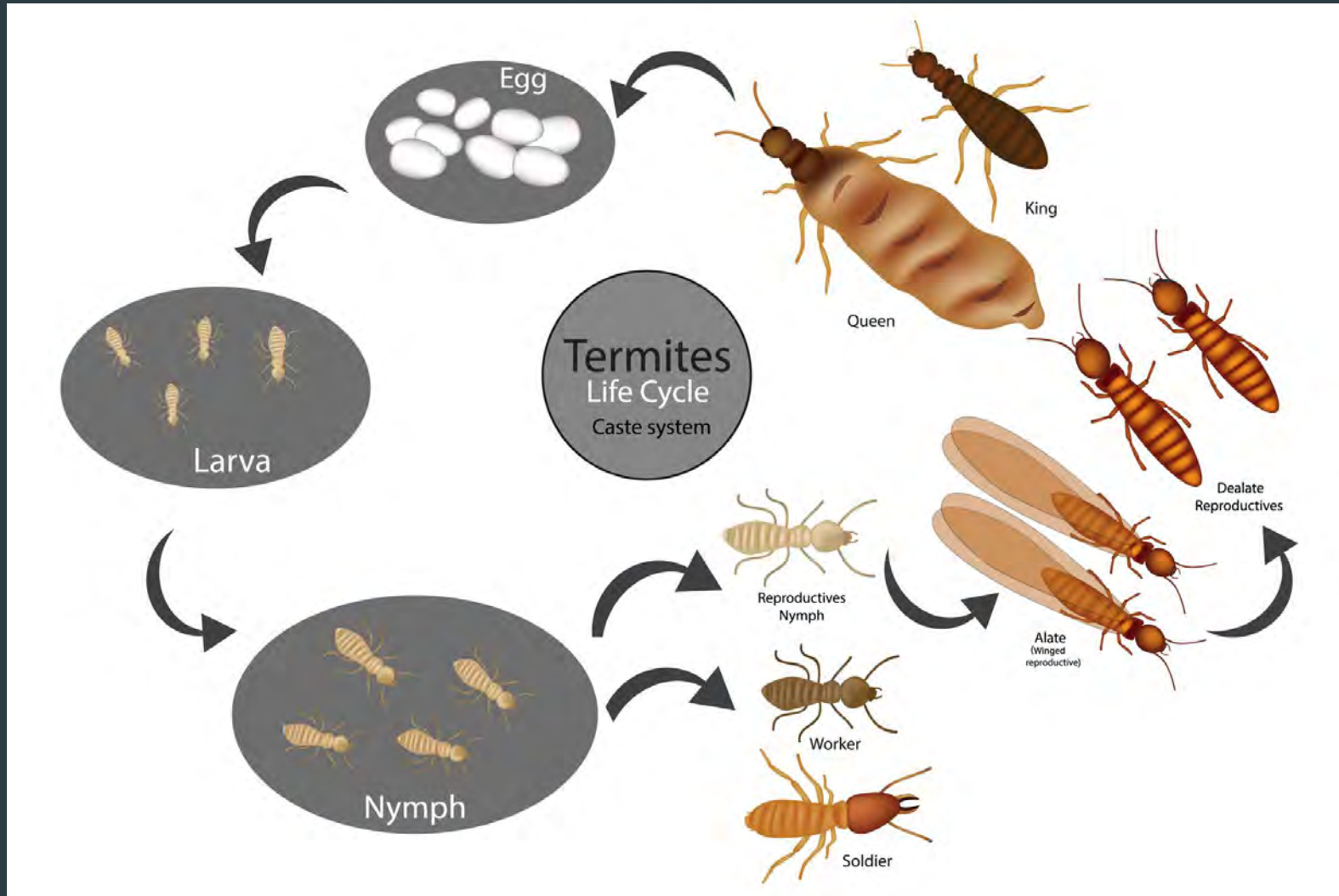


Dry Wood Termite

Harvester or Damp Wood Termite

Subterranean Termite

Life Cycle of Termites



Dry Wood Termites

- ▶ Kingdom: Animalia
- ▶ Phylum: Arthropoda
- ▶ Class: Insecta
- ▶ Order: Blattodea
- ▶ Infraorder: Isoptera





Drywood termites infest in dry wood and often establish nests in roof material and wooden supports and infect dead wood that may be around homes.

They do extensive damage that costs homeowners thousands of rands.





Subterranean Termites

- ▶ Family: Rhinotermitidae
- ▶ Genus: Coptotermes
- ▶ Type: Subterranean
- ▶ Nest Type: Underground Mud Tunnel Builders
- ▶ Areas: Gauteng, NW, Free State, Mpumalanga, Limpopo, KZN and the Western Cape. They can be found in most provinces.





Subterranean create Mud Tunnels to their nests

They cause significant damage to wood structures.

Discarded wings and mud tubes are signs of their presence

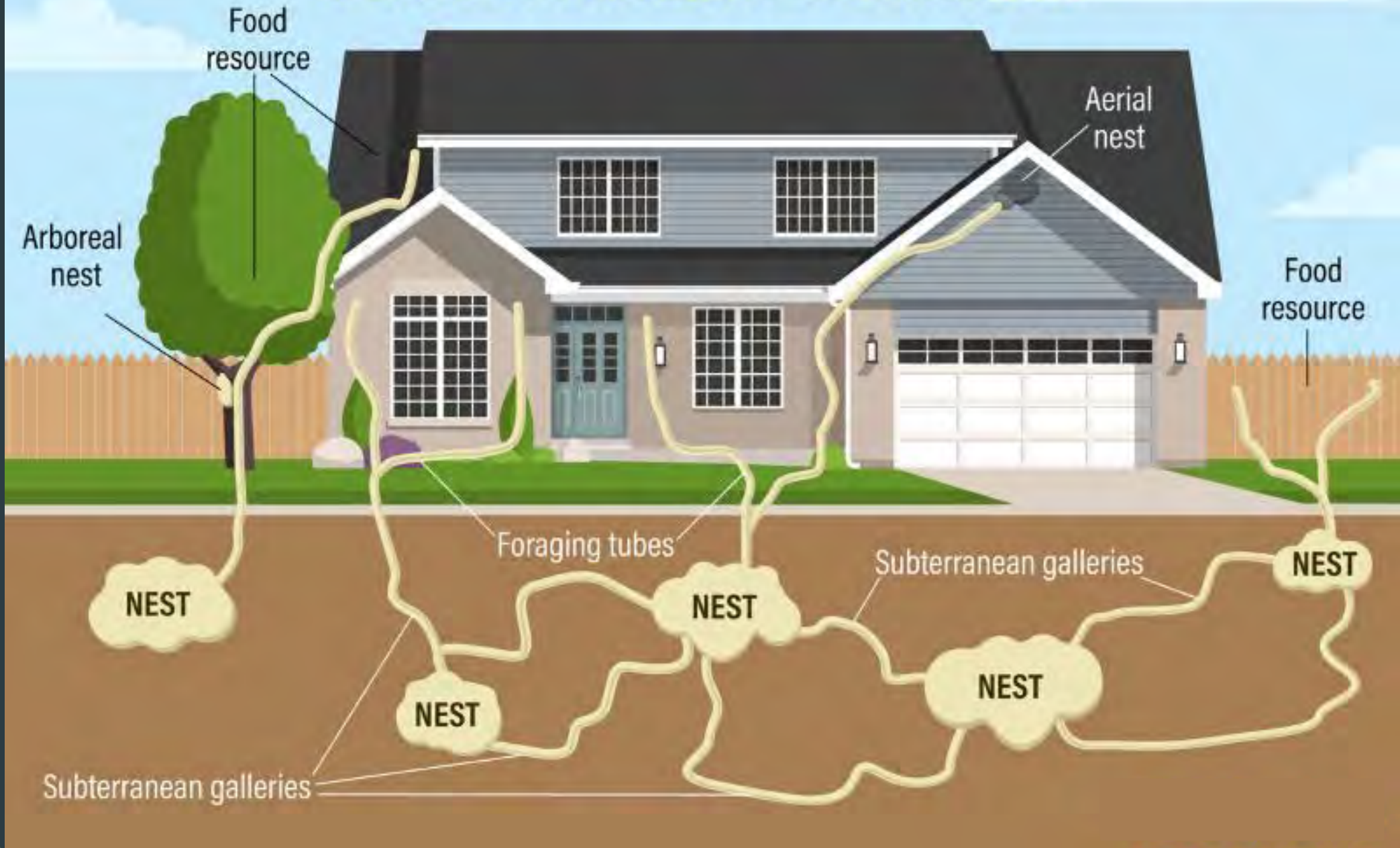


Swarming Subterranean termites do not leave exit holes in wood as they build their colonies in the soil.

Instead, they exit their colonies via Mud Tubes that direct them to the surface. When you find these a colony is close by.



Subterranean Termites



Termite Mud Tubes

Drop tubes

Working tubes

Swarm tubes

Exploratory and migratory tubes



Main Differences between Drywood and Subterranean Termites

Drywood Termites

- ▶ Food Source : Wood
- ▶ Live in the Wood
- ▶ Bore across the wood grain
- ▶ Found above the ground
- ▶ Obtain water from the moisture of the wood

Subterranean Termites

- ▶ Food Source : Wood
- ▶ Live underground with large colonies
- ▶ Bore in the wood grains (softer)
- ▶ Take the wood down to their harborages
- ▶ Obtain water from the moisture in the soil

Subterranean termites

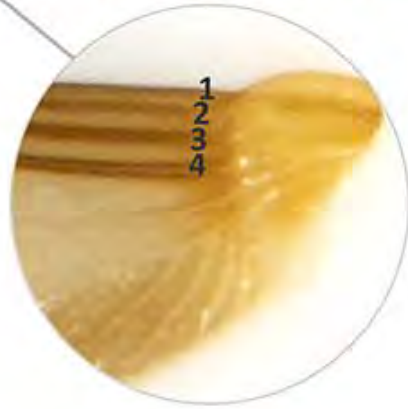


Only 2 thick veins at the front base of the wings



3 or more thick veins at the front base of the wings

Drywood termites



Front (head)



Back (abdomen)

Difference in Wings of Subterranean & Drywood Termites

Harvester Termites - Damp Wood

- ▶ Family: Kalotermitidae
- ▶ Genus: Neotermes
- ▶ Type: Harvester Termite
- ▶ Nest Type: Usually in grassland and savannah regions
- ▶ Areas: Throughout South Africa





Harvester Termites

- ▶ Harvesters DO NOT attack timber.
 - ▶ Aesthetics
 - ▶ Denude lawns/ hedges/ shrubs & Plants
 - ▶ in the garden
 - ▶ Structural
 - ▶ *Burrow through and undermine walls (raw brick)*
 - ▶ Destroy thatch roofs
 - ▶ *Also: Wallpaper /Cotton Material /Books*
 - ▶ *Items containing cellulose*



Northern Harvester Termites



Turreted cut grass and soil dumps in roof of house



Southern Harvester Termites

Oldest Termite Mound in Namaqualand



In Namaqualand, South Africa, **the “heuweltjies” (hills) are old** termite mounds that take up about 20% of the land. The southern harvester termite (*Microhodotermes Viator*) lives in these sandy formations. They are home to termites for the longest period, going back between 13,000 and 34,000 years.

Some Interesting Facts.....

- ▶ **Termites are good for you... to eat!** Termites are rich in iron, calcium, protein, fatty and amino acids, making them a highly nutritious food.
- ▶ They never sleep. Termites build their colonies 24 hours a day, every day.
- ▶ Ants and termites are enemies. In Fact, ants are the number one predators and competition for termites
- ▶ Some species of termites build their colonies upward. In tropical areas, such as parts of Africa, termite mounds can even be up to 30 feet high!
- ▶ Termites are eusocial. This means that they live in a caste system, where each caste has a different role.
- ▶ **Soldier and reproductive termite castes can't feed themselves.** These two castes have to rely on worker termites to feed them by regurgitating digested cellulose into their mouths.
- ▶ Termites are hygienic. Termite colonies spend a great deal of time grooming one another in order to prevent disease.



Some Interesting Facts

- ▶ If you put every termite on earth on a scale at once, their total combined weight would be 445 million tons. For reference, if you did the same thing with humans, we would weigh 350 million tons.
- ▶ Some queens in certain termite species can lay 15 to 25 eggs per minute. This adds up to over 40,000 termite eggs per day!
- ▶ Queen termites from the Termitidae family can produce millions of eggs per year. In fact, they are known to produce around 10 million eggs per year.
- ▶ Termite queens have the longest lifespan of any insect in the world. Some termite queens may live between 30 and 50 years, reproducing annually and founding numerous colonies.



Difference
between
ant and
termite.

ANT



TERMITE



Driver Ant -

Ant species
that easily
gets
confused
with
termites



So how do we eradicate these little guys?



Different Treatments

- ▶ Residual Pesticide Treatments
 - ▶ Pre- construction
 - ▶ Post Construction
- ▶ Baiting



Termiticides



PROTHOR[®] TERMITICIDE THE PROTECTOR

The Professional
Standard for
protecting
buildings against
termites

NOW WITH **13 YEARS**
PROVEN EFFICACY
IN SOUTH AFRICA

PROTHOR[®] 200 SC

- ▶ 200 g/L Imidacloprid
 - ▶ Use rate: 0.5 g/L
 - ▶ Water-based micro-suspension
 - ▶ Odourless
 - ▶ Non-Repellent
 - ▶ Long-lasting
 - ▶ Guarantee: 5 years

13 Years of Efficacy Data

Local Trials run by the SABS now proves that Prothor 200 SC is 13 years effective. All trials on ongoing and will continue till total breakdown - this is courtesy of Heiz Lootz previously of SABS



PROTHOR™ TERMITICIDE THE PROTECTOR

The Professional Standard for protecting buildings against termites



Now with 13 Years Proven Efficacy Tests In South Africa

THE THREAT

Termites - a serious threat to your most valuable investment

THE DEFENCE SHIELD

PROTHOR binds slow to bind tight

THE PROTECTOR

PROTHOR gives you superior termite protection

THE PROTHOR VIRAL EFFECT™

PROTHOR spreads from termite to termite eliminating termites in the building

Prothor 200 SC
Reg. No. L8794 Act./Wet No. 36 of/van 1947
Ingredient: Imidacloprid 200 g/L

CALL 080ENSYSTEX (080-367-9783)

www.ensystex.co.za

za_client@ensystex.com

ENSYSTEX
LEADING INNOVATION IN PEST MANAGEMENT

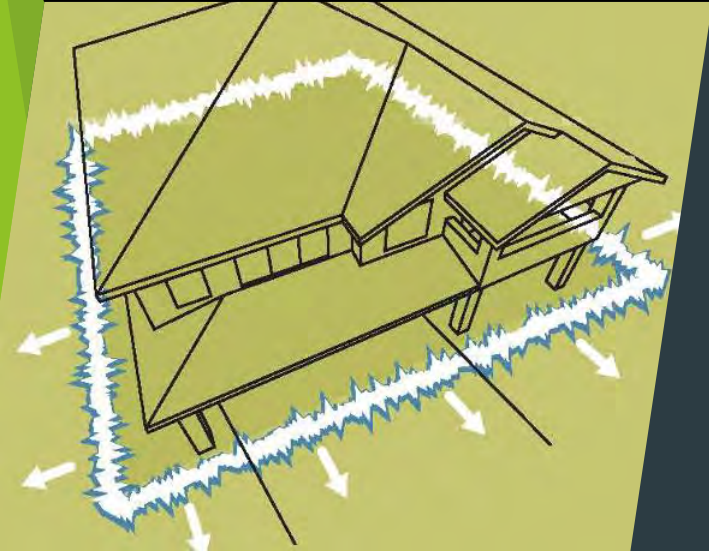
™ Trademark of Ensyslex, Inc. USA and used under licence by Ensyslex South Africa.

* Conditions apply

BROP1009 1.01 08.21

Directions for Use

- ▶ Directions for use:
 - ▶ Mix 250ml / 100L water
 - ▶ Apply solution at 5L per m² / LM
 - ▶ 2.5g vs. 1.25g imidacloprid applied per m²
 - ▶ Preconstruction:
 - ▶ Apply as a drench -
 - ▶ under solid floors
 - ▶ foundation footings & V - Channels
 - ▶ Post Construction:
 - ▶ Drill & Inject - Hole spacing 1m.



PROTHOR 200 SC - 200 g/L Imidacloprid

Costing

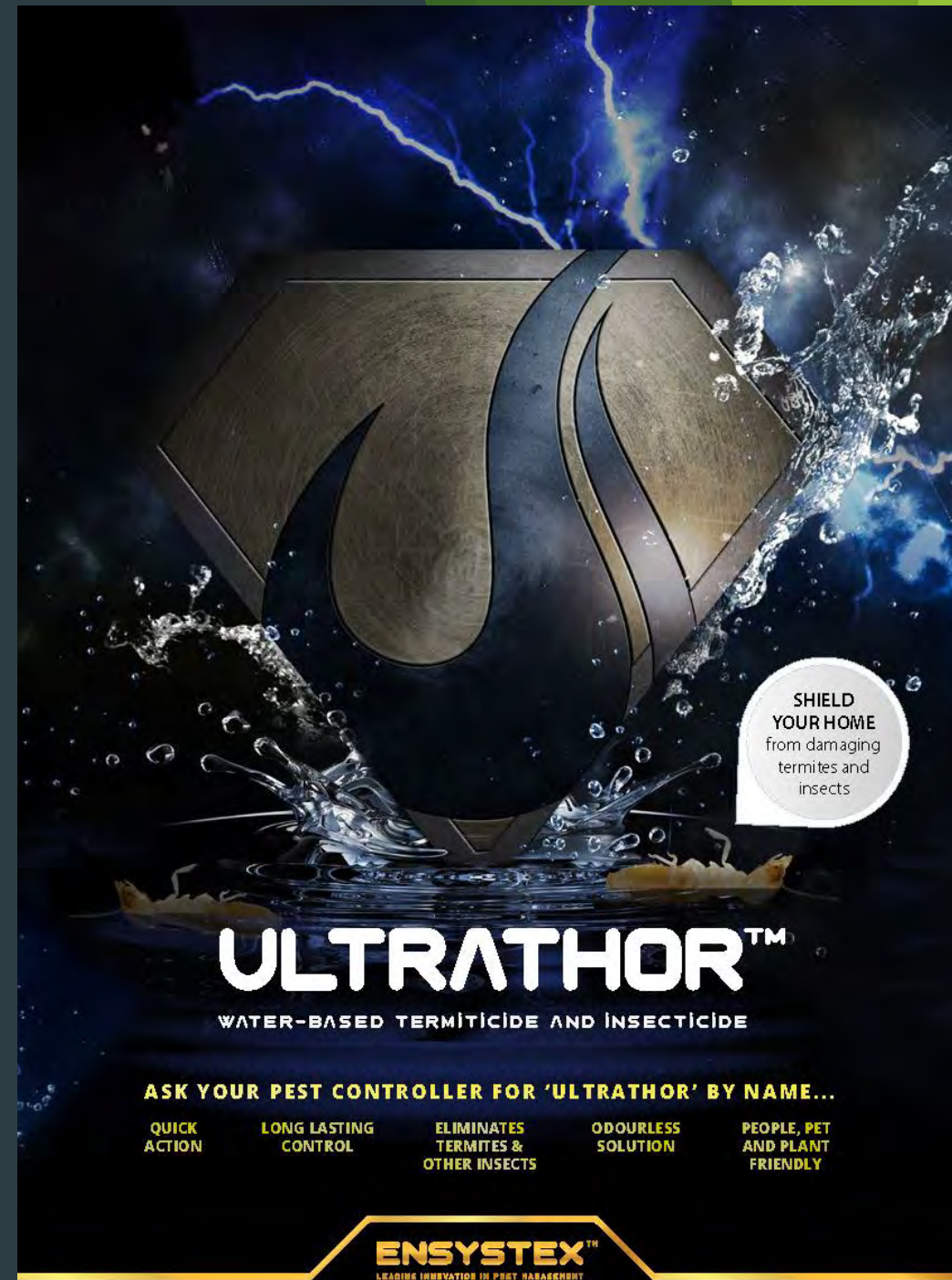
3L Prothor 200 SC - R1276 ex VAT	5L Mix per LM/m ²	Cost per 100L Tank	Cost per 150L Tank
Dilution rate of 250ml/100L			
3L = 1200L solution. 1200L ÷ 5L = 240 m2 or LM. R1276 ÷ 240 = R5,3 per m2 or LM		R106,33	R159,50





ULTRATHOR Termiticide

- ▶ 100 g/L fipronil
- ▶ Use rate: 0.25 g/L
- ▶ Water-based micro-suspension
- ▶ Odourless
- ▶ Non-repellent
- ▶ Long-lasting
- ▶ Guaranteed 5 years
- ▶ Quick action



SHIELD YOUR HOME
from damaging termites and insects

ULTRATHOR™

WATER-BASED TERMITICIDE AND INSECTICIDE

ASK YOUR PEST CONTROLLER FOR 'ULTRATHOR' BY NAME...

QUICK ACTION	LONG LASTING CONTROL	ELIMINATES TERMITES & OTHER INSECTS	ODOURLESS SOLUTION	PEOPLE, PET AND PLANT FRIENDLY
--------------	----------------------	-------------------------------------	--------------------	--------------------------------

ENSYSTEX™
LEADING INNOVATION IN PEST MANAGEMENT

ULTRATHOR Termiticide

- Directions for use:
 - Mix 250ml / 100L water
 - Apply solution at 5L per m² / LM
 - 1.25g/m² fipronil applied
 - Preconstruction:
 - Apply as a drench -
 - under solid floors
 - foundation footings & V - Channels
 - Post Construction:
 - Drill & Inject - Hole spacing 1m.



Now with 8 Years Efficacy Tests with SABS**

ENSYSTEX is committed to the quality and performance of all its products.

ENSYSTEX's commitment is unique in that we stand behind any treatments performed by our ULTRATHOR Trusted Professional Pest Managers. These are companies and individuals who meet the highest standards of training and professional treatment standards. Companies who agree to providing a complete, premium quality treatment.

If termites get through the correctly applied ULTRATHOR Termite Defence Zone™ during this time*, ENSYSTEX will pay your ULTRATHOR Trusted Professional Pest Manager for their retreatment costs AND up to R20,000 for termite damage repairs*.

5 Year Performance Guarantee with 8 years of Proven Efficacy in South Africa

ENSYSTEX®

ULTRATHOR Termiticide - 100 g/L fipronil

Costing

3L Ultrathor - R2427 ex VAT	5L Mix per LM/m ²	Cost per 100L Tank	Cost per 150L Tank
Dilution rate of 250ml/100L			
3L = 1200L solution. 1200L ÷ 5L = 240 m2 or LM. R2427 ÷ 240 = R10,11 per m2 or LM		R202,25	R303,38



MAXXTHOR 100 SC

- ▶ 100 g/L Bifenthrin
 - ▶ Use rate: 1 g/L
 - ▶ Water-based micro-suspension
 - ▶ Odourless
 - ▶ Non-Repellent
 - ▶ Long-lasting
 - ▶ Guarantee: 5 years

RELAX! YOUR BUG PROBLEMS ARE SOLVED

MAXXTHOR[®]

HIGH PERFORMANCE TERMITICIDE & INSECTICIDE

-  **LONG-LASTING PROTECTION**
against lots of pests
-  **ODOURLESS**
water-based insecticide
-  **SUPERIOR SOIL PENETRATION**
the longest lasting termiticide
-  **DESIGNED FOR PROFESSIONAL PEST MANAGERS**

ENSYSTEX[®]
THE INNOVATORS

MAXXTHOR[®]

TERMITICIDE & INSECTICIDE



MAXXTHOR 13 Years Proven Performance!

Proven in MAXXTHOR 13 Years Efficacy Trials with the SABS**

ENSYSTEX is committed to the quality and performance of all its products.

ENSYSTEX's commitment is unique in that we stand behind any treatments performed by our MAXXTHOR Quality Preferred Pest Management Professionals. These are companies and individuals who meet the highest standards of training and professional treatment standards. Companies who agree to providing a complete treatment in accord with the requirements of the MAXXTHOR product label.

If termites get through the correctly applied MAXXTHOR Protection Zone during this time Ensysstex will pay your MAXXTHOR Quality Preferred Pest Management Professional for their retreatment costs.

5 Year Performance Guarantee* with 13 years of Proven Efficacy in South Africa

ENSYSTEX[®]

All trials on ongoing
and will continue
Till total breakdown -
this is courtesy of
Heiz Lootz previously
of SABS

MAXXTHOR 100 SC - 100 g/L Bifenthrin

COSTING

5L Maxxthor 100 SC - R1638 ex VAT	5L Mix per LM/m ²	Cost per 100L Tank	Cost per 150L Tank
Dilution rate of 1L/100L			
5L = 500L solution. 500L ÷ 5L = 100 m2. R1638 ÷ 100 = R16,38 per m2		R327,60	R491,40



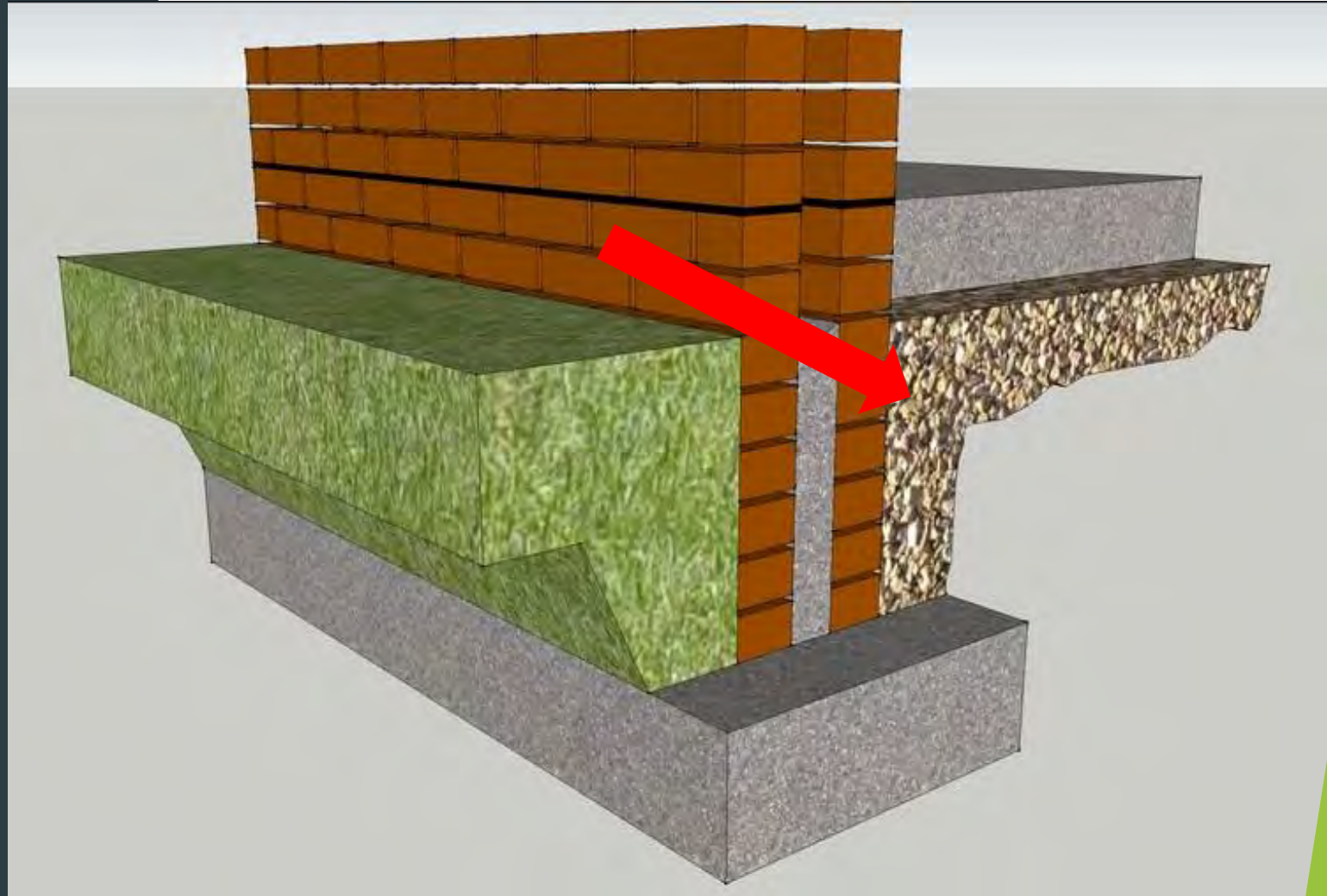


TERMITE TREATMENTS

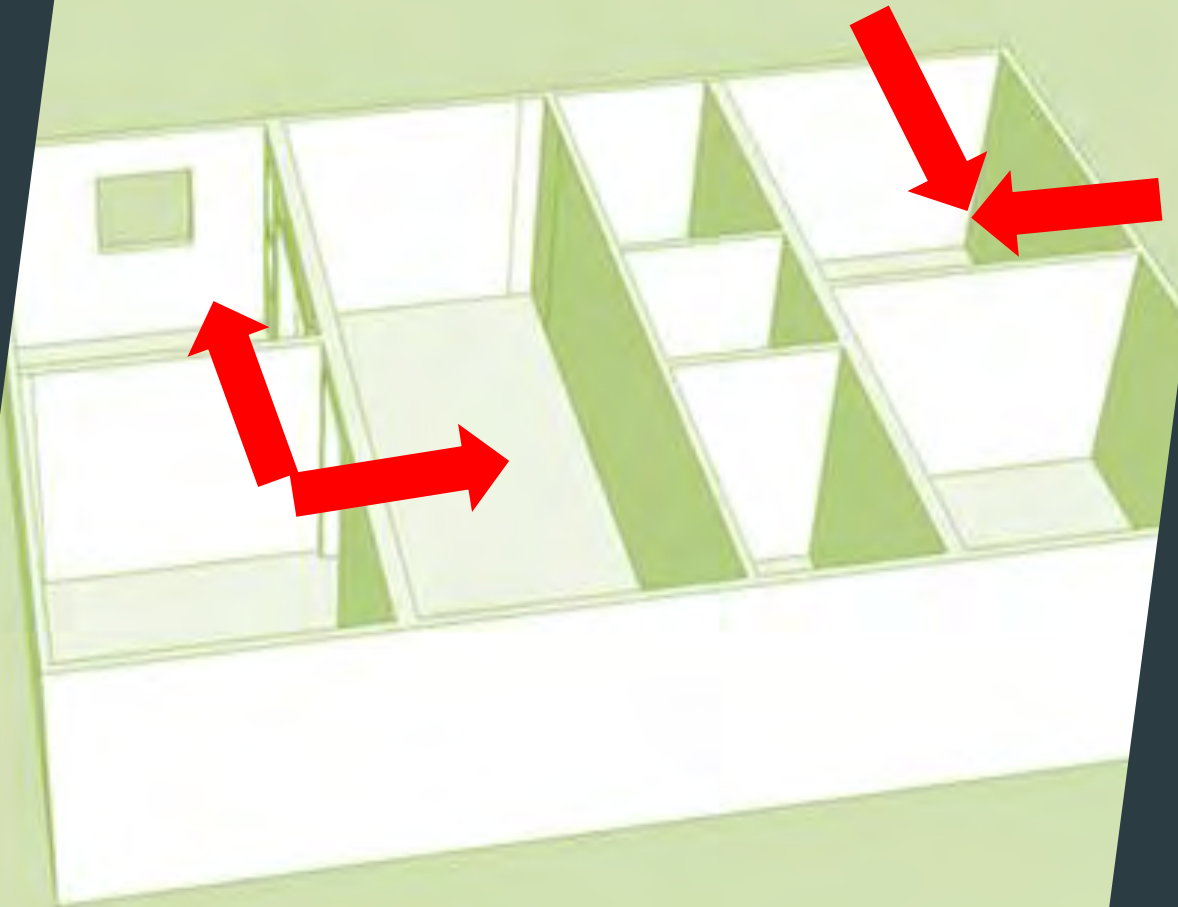
- ▶ Job card, tools and termiticide.
- ▶ What will you need? Checklist?
- ▶ PPE.
- ▶ On Site Inspection.
- ▶ Toys, pet food, pets etc.
- ▶ Internal levels of the house.
- ▶ Danger points (water/Elec).
- ▶ Garden damage.

Post Construction

- ▶ Mix and agitate tank.
- ▶ Calibrate pressure sprayer.
- ▶ Double calibrate.
- ▶ Damp course.
- ▶ Target area - soil under the floor.
- ▶ Spacing 1m intervals.
- ▶ 5L per hole.
- ▶ Harvester Termite drill n inject?



Post Construction



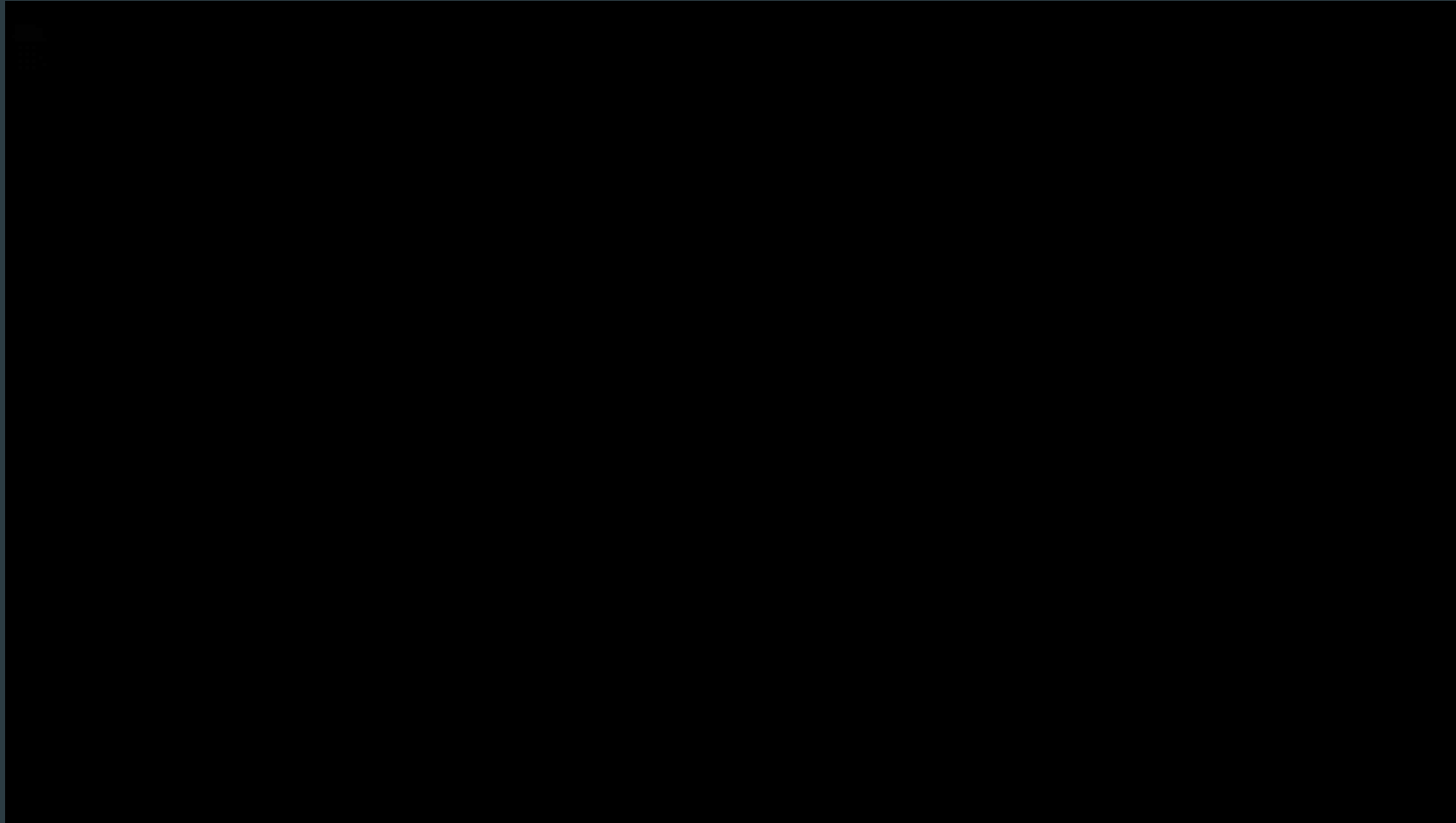
- ▶ Where to drill & inject.
- ▶ Pay attention to corners.
- ▶ Pay attention to internal walls.
- ▶ Pay attention to water pipes.
- ▶ Pay attention to electrical cables.

Pre Construction

- ▶ Wear PPE relevant to site n Termiticide.
- ▶ Comply to site safety regulations.
- ▶ 5L per sqm.
- ▶ Foundation trenches.
- ▶ Foundation.
- ▶ Damp course needs to be installed directly after the treatment has been carried out.
- ▶ Special attention needs to be given to trenches, walls, water pipe inlets, electrical inlets n outlets.



Last but not least is our Exterra Baiting System - Eco Friendly Solution



Components



Above Ground Station





Above Ground Stations

EXTERRA Termite Baiting System

<i>Exterra Termite Baiting</i>	<i>Cost per Station</i>		
In ground Station - Only Stations with activity are baited with Requiem	R149,00*		
Focus Termite Bait	R10,92		
6 x Euclyptus Interceptors per station	R40,68		
Requiem per in ground station - 250g	R425,00		
Above ground station - Only place where there is active termites and place requiem inside	R97,10		
Requiem per above ground station - 140g	R225,00		

An in-depth training session on EXTERRA
Will be coming soon!

Thank you for joining us!



Please Contact your Sales Representative
via a call or WhatsApp or Email.