

Anti-Termite Treatment Certificate

(With 10-Year Warranty)

Certificate No.: 00423-2025

Date of Issue: 30-Jan-2025

Valid Until: 30-Jan-2035

Client Details:

Name: The Coca-Cola Export Corporation (TCCEC)
floor

Address: Kingray Karyal Road near Pajian Village
33 km Raiwind Road, Lahore 55150 Pakistan

Treatment Details:

Location Treated: SMP iii footings &
floor

Total Area Covered: 4711.74 sqm

Type of Construction: New

Chemicals Used:

Product Name: MIRAGE 5% SC (Imidacloprid)

Application Method: Spraying

Warranty Terms & Conditions (10 Years):

1. This certificate guarantees protection against subterranean termite infestation for a period of 10 (Ten) years from the date of application.
2. In case of termite re-infestation within the warranty period, we will re-treat the affected area at no additional cost.
3. The warranty covers only subterranean termites, not drywood termites or other pests.

For & on behalf of SINACO engineers



ALI ANSAR

Project Coordinator

Advantages of Mirage SC vs EC Formulations/Bifenthrine/Fipronil

| Imidacloprid (Mirage) | Bifenthrine (EC Formulations Bouncer or Biflex) | Fipronil 2.5% EC (EC Formulations Legend or Agenda) |
|---|---|---|
| <ul style="list-style-type: none"> • The Latest Technology being used worldwide in SC Formulation • The safest Chemistry available in Pakistan --- LD 50 (Safety) Value is 450 • <u>Longer Residual Effect --- Half Life is 355 Days</u> • <u>97% control on termite at a lab test by USDA</u> • Water based formulation • No petroleum derivatives added • No Xylene, Benzene, Nitro Benzene • No Carcinogen or Irritants at all • Purely Odorless, Slightly Perfumed • No evaporation at Room temperature • Very low evaporation at High temperatures • 60 % to 70 % Barrier is enough at each stage to give 100% protection from Termites • Complaint Ratio is very low due to its lethal effects to the entire colony of termite --- even it is equally good for Post Construction Treatment • <u>Mirage is more powerful & advanced technology than Bifenthrine, hence could be used at Floor Level & Outer Barrier (of a building treated with Bifenthrine at Foundation Level) - i.e., we will provide guarantee for that building.</u> | <ul style="list-style-type: none"> • Older technology in EC Formulation • LD 50 (Safety) value is 54.5 • Half Life is just 156 days • <u>37% control on termite at a lab test by USDA</u> • Petrochemical based formulation • Xylene, Benzene Nitro Benzene form up to 97.5% of the total contents that causes: • Carcinogenicity and skin Irritation • Moderately to highly bad odor • High evaporation at Room temperature • Very high evaporation at temperatures higher than 30% • 100% barrier is required at each stage (foundation, floor & Outer barrier) to control the termite • Complaint Ratio is very high due to repellency factor, that is why ----- Not recommended for Post Construction usage | <ul style="list-style-type: none"> • EC Formulations • Oil based formulation - • LD 50 (Safety) value is 336 • Half Life is just 130 days • <u>70% control on termite at a lab test by USDA</u> • Petrochemical based formulation • Xylene, Benzene Nitro Benzene upto 97.5% of the total contents that causes; • Carcinogenicity and skin Irritations • Moderately to highly bad odor • High evaporation at Room temperature • Very high evaporation at temperatures higher than 30% • <u>Banned in France & China due to its leaching down movement to water level</u> • Prices of Fipronil is relatively higher than Mirage (if applied as per manufacturer's Instructions) |

Nomenclature

Termite Proofing with **MIRAGE 5% SC**

The Product:

Mirage 5% SC (50 grams Imidacloprid per liter)

Active Chemical Name:

Imidacloprid

Chemical family:

Chloronicoyinyl Pesticide

Manufacturer:

Ali Akbar Group, Pakistan

Supplier Name:

Friends Environmental Solutions (Countrywide Distributors for Termiticide & Fumigation Services)

Main Characteristics of Mirage

- The Safest SC formulation
- Effective at low dose rates
- Unique mode of action - eliminates the entire colony of termites
- Low vapor pressure
- Purely Odorless - Slightly Perfumed
- No effect on earth worms
- Low toxicity to mammals
- Environment friendly
- Strong bonding with soil particles

Suitability For all Types of Soil

Mirage formulated with specialized dispersing agent makes strengthened bond with soil particles. The protective barrier thus formed does not degenerate by weather conditions.

Mixing Ratio (to prepare Mirage Emulsion)

1:110 -One liter of Mirage to mix with 110 liters of water to make spray emulsion (to cover maximum 290SFT area)

Method of Application:

Manpower: Team of two applicators & one Supervisor to arrive at the site, with the product and equipment.

Equipment: One number of calibrated Electric pressure pumps

Two number of hammer drills with requisite spare parts (for post construction treatment).

Pre-Construction Treatment Methodology:

First Stage & Second Stage- Basement Bed Surface, Side Walls & Trenches if any

Treatment of all the bottom surface and sides of excavation of basement including column pits, wall trenches, retaining walls & backfill material, if recommended by consultant, shall be treated with Mirage emulsion @ 4 liters per square meter (10.76 Sft) on the top surface area with regulated pressure sprayer

Third Stage - Outer side Barrier:

When the construction of the building premises is completed, outer parameter of the building shall be treated by flooding Mirage emulsion at the rate of 4 liters emulsion per square meter (10.76 sft).

The junction of walls and floors shall be treated by forming channels (of minimum 6" x 6") and flooding these channels with Mirage emulsion.

The measurement of the outer barrier will be taken 4 times of the actual SFT area

Lead Time After Application of Mirage 5%SC.

When Treatment with Mirage 5%SC. At any site without disturbance of barrier (Rain, Mud Dumping of Mud/further Excavation at treated site prohibited) till Seven days from the date of application is permitted for lean/concrete works (Low evaporation of Mirage 5%SC Chemical due to Aqua Base).

Post Treatment Methodology:

Re-Treatment Guarantee: 5 Years.

Methodology:

Manpower: Team of two applicators & one Surveyor/Supervisor to arrive at the site, with the product and equipment.

Equipment: One number of pressure pumps.

Two numbers of hammer drills with requisite spare parts.

Drilling (Ground Floor only)

- 12-15 mm dia holes to be drilled two to three foot a part along inside and outside, in order to develop an outer and inner barrier against further termite entry of all the walls.
- The holes will be deep enough to reach the soil underneath the floors.
- Holes in a room will be drilled, mobbed clean.
- At the completion of injection of Chemicals solution, the holes will be closed & sealed with matching colored cement.
- The room will be mobbed clean & reported to customer as ready.

Drilling (Wooden Structures) 1-2 mm dia holes to be drilled two foot a part along top & bottom side of the wood in order to develop an inner barrier against further termite entry of the wooden surface all along the walls.

- Chemical & Kerosene Oil Solution will be sprayed on the outer surface of the wooden structures/paneling or as per the site requirement.

ADVANTAGES OF TERMITE PROOFING WITH “MIRAGE”

- Available in the safest SC formulation
- The most effective at low dose rates being recommended worldwide
- Unique mode of action (eliminates the entire termite colony under the structure)
- Long residual effect
- Low water solubility
- Low vapor pressure
- Completely Order less
- No odor or irritation (skin & eyes)
- Low risks for the Applicator & Residents
- Lowest toxic to mammals
- Environment friendly
- Strong bonding with soil particles
- No potential to reach ground water or surface water

Less susceptibility to U.V. than other chemicals which leave more time available before pouring concrete slab