

## 1. What is Anti-Termite Treatment in building?

Anti-termite treatment is a chemical procedure carried out for soil, masonry, wood and electrical fixtures to provide the building with a chemical barrier against the subterranean or wood-nesting termites before and after construction.

### Site Preparation

1. The trees, stumps, logs, or roots present at the site, which may be harboring the termites, shall be removed.
2. A depth of 75mm surface soil is scarified from the top; the places where penetration of chemical treatment is likely to be slow.
3. In the case of loose and porous or sandy soils where loss of treating solution is more, pre-moistening of the soil is carried out to fill the capillaries is carried out.
4. For treatment in flooring, leveling and grading shall be completed, which must be free from organic debris and should be well compacted.
5. All wood related work equipment such as frameworks, leveling pegs, timber offcuts, or other builder's debris should be removed from the area to be treated.

### 1. Termite Treatment with “Reticulation System” to use USDP technology (underground specially designed pipes)

Pipe reticulation system is a revolutionary termite treatment method designed to effectively treat the area under concrete slabs or flooring before they are constructed. The reticulation system is a network of underground specially designed pipes (rubberized membrane) to induce anti-termite chemical uniformly throughout the building's foundations.

This termite treatment system helps to protect against invasion by termites in the future which would otherwise enter from the outside of your home or from under the floor. It is extremely durable and gives a very robust protection to a new building and works as a highly effective termite shield for years together

### Working Principle and Installation of Reticulation System:

- a. The reticulation system involves laying of special flexible, continuously perforated 14 mm or 16 mm dia pipe along the internal periphery of the building and centre of the flooring using grid design (every 4 feet).



- b. The placement of perforated pipe (made of special rubberized membrane) is done along the flooring just before laying of the sand bed/subgrade or before fixing the floor marble/tiles.
- c. The perforated pipe has emitters fabricated in them which allow uniform distribution of termiticide under the entire flooring.
- d. The emitters distribute chemicals at a pre-calculated rate and reduces the risk of any area being untreated.
- e. The use of continuously perforated porous pipe ensures no debris, clay, or concrete will block the pipe and make it ineffective.
- f. The open ends of this network of pipes are joined at several junction boxes (refilling points) for periodical recharging of termiticide (termite chemical)
- g. Generally, these junction boxes are installed on the outer walls in a concealed manner or match the aesthetics of the building exteriors.
- h. Refilling points are installed along the external wall so that the termiticide could be applied from outside the building without causing any disturbance to the occupants.
- i. Termite control chemical emulsions are induced at low pressure through these junction points (refilling points).
- j. Low pressure ensures even distribution of termiticide emulsion at all delivery points and finally to entire network of porous pipe.
- k. This system creates a continuous chemical barrier under the floor and impede termites invasion through soil and deny access to the structure of the building.



## *Recharging of Porous Piping System*

- The system must be recharged @ 2.25 lit. Per sq. meter. of the horizontal surface area.
- This must be repeated every 3-4 years to give ongoing protection against termite entry to your home.
- However, regular termite inspections are recommended as an integral part of a Termite Management System.
- This system has been designed robustly to achieve a minimum Service Life of over 35 years. And maximum of 60 Years

## *Advantages of Termite Reticulation Treatment*

1. No excavation or drilling the holes in the floor to inject termite chemical is required.
2. Tedious work of removing the furniture in the area is not required.
3. No pungent smell of the termite chemical is released in the premise.
4. No exposure of insecticides to occupants of the building.
5. Installation of piping system is warranted for 20 years with refilling every Third year.
6. Unlike the conventional termite injection method, there is even distribution of the chemical under the floor.
7. No Stains discoloring or marks on the costly floors.
8. The cost-benefit ratio when compared with traditional methods of termite treatment, over longer periods is considerable as recharge costs are significantly lower than a drill and fill method.

