

Anti Termite Treatment

Lecture 16

by
Dr. Himanshu Chawla



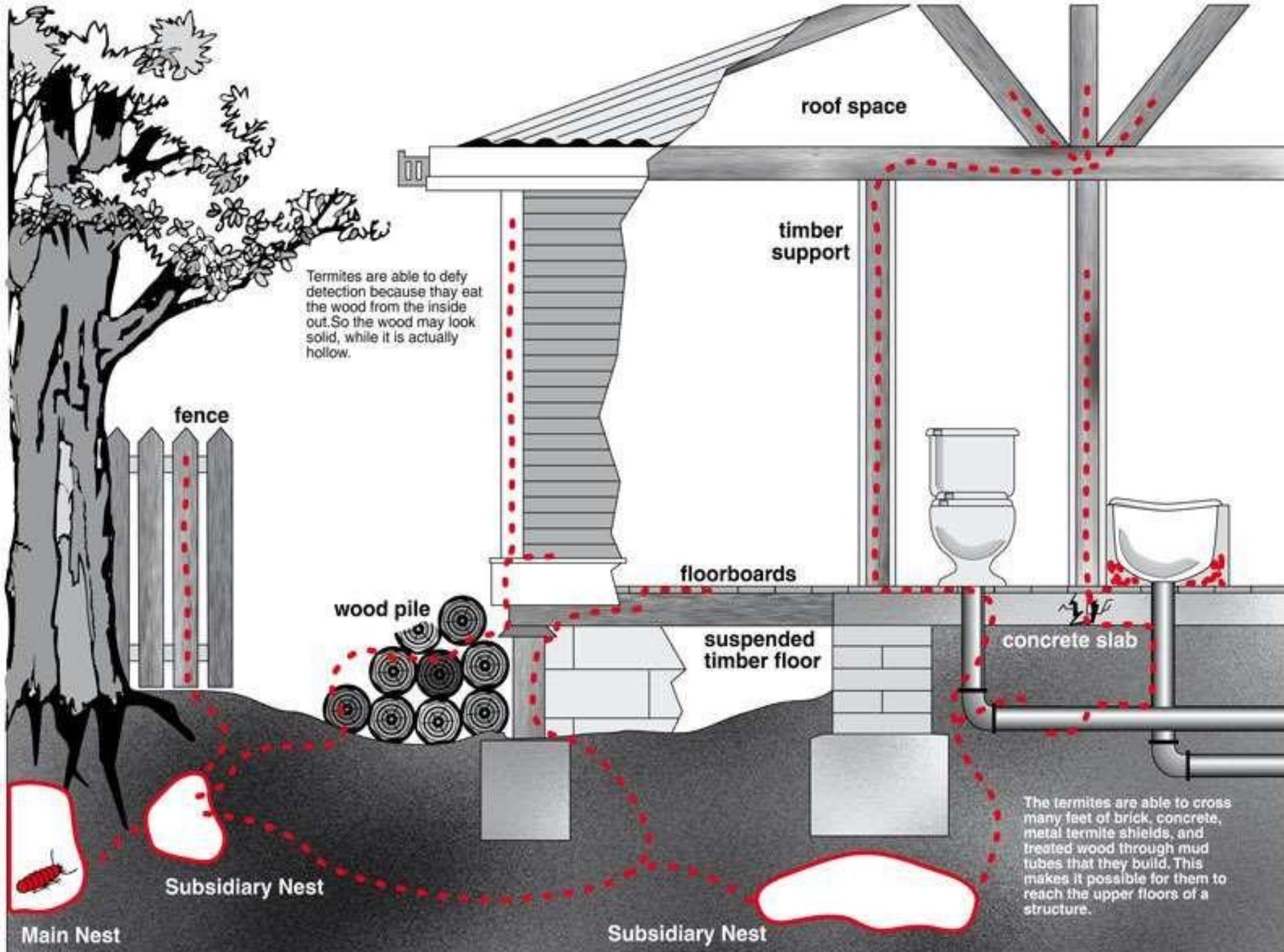
UCE306: ARCHITECTURE DRAWING AND BUILDING CONSTRUCTION
Damp Proof Course-II

Necessity of Anti-termite measures

Prevention

Anti-termite Treatment





➤ Introduction

- Termite control in building is very important as the damage likely to be caused by the termite is huge.
- Termites **damages the cellulosic materials** (Like wood) at faster rate because cellulose forms their nutrients.
- Termites also known to damage non cellulosic material in their search for food.



Necessity of Anti-termite measures

- **Termite control** in buildings is very important as the damage likely to be caused by the termites is huge. Wood is one of the cellulosic materials which termites damage, **cellulose forming their basic nutrient.**
- Termites are also known to **damage non-cellulosic** substance in their search for food. Rubber, leather, plastic, neoprene as well as lead coating used for covering of underground cables are damaged by termites.



Scope

How to Carry out of Pre-Constructional Anti-Termite Chemical Treatment for the Building.

Codes

IS 6313 - Code of practice for anti-termite measures in buildings.

1. IS 6313 Part 1 – Constructional Measures
2. IS 6313 Part 2 – Pre-Constructional Anti-Termite Measures in Buildings
3. IS 6313 Part 3 – Treatment for Existing Buildings

➤ Classification Of Termites

According to their habits, termites are classified into two well defined groups:-

Subterranean :-

Termites which builds their nests in the soil.

Non Subterranean:-

These type of termites are wood nesting, which live in wood with no contact to soil.

➤ Damages By Termites



Termite damage
indoors on
walls



Termite nest
on walls



Termite holes
on wood



Termite
destruction of
wooden Doors



Prevention

- Pre-construction anti-termite treatment is considered as most effective way to prevent termite invasion in buildings or homes.
- In this soil under the foundation is treated with chemicals. A **chemical barrier** is formed between ground and brickwork of the foundation to avoid termites access to the building.

Post construction

Post construction anti-termite treatment is conducted after the completion of the construction of the building.

This normally consists of re-using termiticides to the soil around the foundation. Also treat the floors of the rooms by making holes under floors and fill them with chemicals for Termite Control.



Anti termite treatment

1. Pre construction
2. Post construction

1. Pre construction

- ▶ The various operation involved in this treatment are as follows
 - I. Site preparation
 - II. Soil treatment
 - III. Structure barriers

i. Site preparation

- The site preparation consist of removing the stumps, roots, logs, waste woods etc from the site where the building is to be constructed.
- If the termite mounds are detected within the plinth area of the building they should be destroyed by the use of **insecticide solution**.



Stump



Logs

ii. Soil treatment

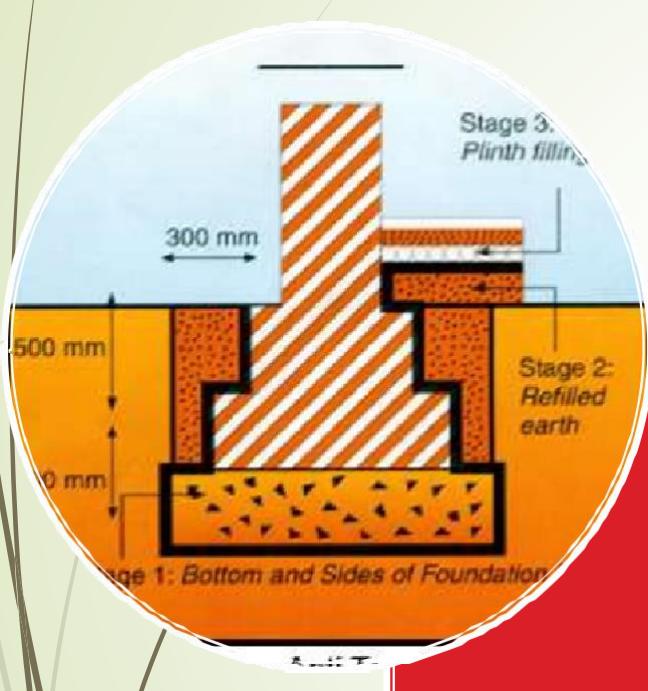
- To make the soil treatment effective the chemical water emulsion is applied in required dosage on entire area of ground covered by the building.
- The watering can or/and operated **compressed air sprayer** can be used to ensure distribution of the chemical emulsion.



Pre-construction anti-termite treatment

iii. Structure barriers

- The structure barriers may be provided continually at plinth level to prevent entries of termites through walls.
- The cement concrete layer 5 to 7.5 cm thick may be provided projecting 5 to 7.5 cm on both the side.
- The metal barriers consist of non corrodible sheets of copper or galvanized iron of 0.8 mm thick may be provided on both the side.



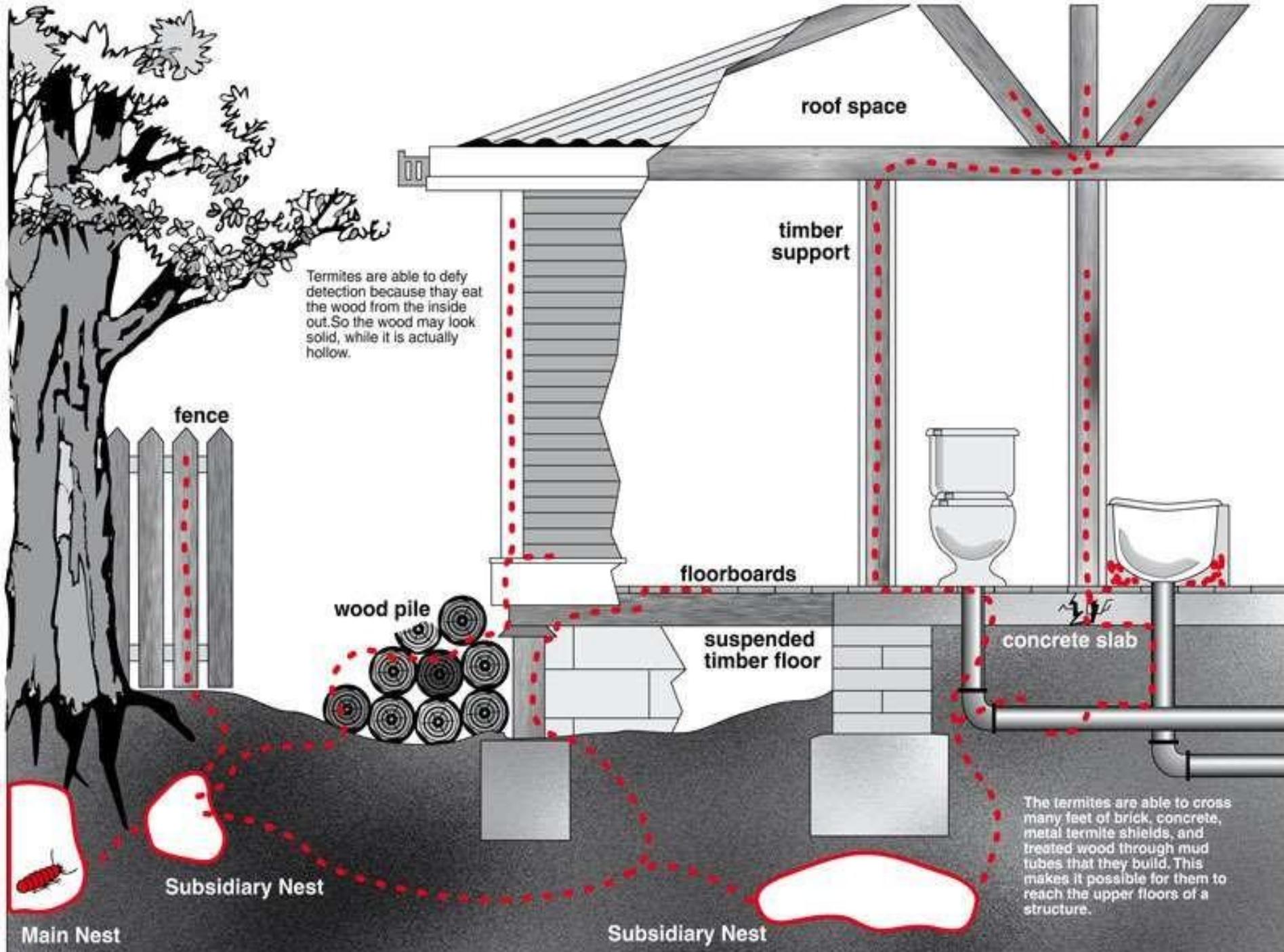
Schematic diagram of Pre-construction anti-termite treatment

2. Post construction

- This treatment is applied **to existing buildings** which are already attacked by termites.
- The termites even after their entries in the building they maintain regularly contact with their nest in the ground.
- In case of sever attack the soil around and beneath the building is treated with chemical emulsion.
- The **wood work** which is **badly damaged** by termites **may be replaced** by new timber brushed with oil or kerosene based chemical emulsion.
- The wood work **which is not attack by termites** may be sprayed over with **chemical emulsion** to prevent the possible attack.

Drilling for Post construction anti-termite treatment







Chemicals Used As Anti Termite Agents

- Chloropyriphos 20% Bearing ISI Certification
- Dilute 1 Part Of Chloropyriphos 20% With 90% of Water
- Indian Pest Control Association Aproved Chemicals