Camilleri Under Slab Injection System Specification

General

The Camilleri Underslab Injection System is a method for injecting Termiticide under concrete slabs on the ground. Perforated polythene pipes are installed on a sand layer prior to the laying of the water vapour membrane. The soil is then chemically treated by injecting a Termiticide into the pipes. Records of the type, concentration and quantity of Termiticide and date of treatment are kept by the applicator and a copy is given to the buildings' owner.

The pipes are heavy duty, grade 12, 13mm diameter polythene pipe. Along their lengths are 1.5mm diameter perforations spaced at 150mm centres. These pipes are laid on top of the sand fill (a graded sand) before the water vapour membrane and the concrete floor is laid. They are positioned directly beneath or to within 150mm either side of any permanent limber structure, such as wall frames, built in wardrobes and cabinets, alongside service penetrations and around the perimeter trenches. They can also be place side by side at 500mm centres, in order that the chemical injected through them may cover the entire sand bed area. The perforations are placed pointing upwards so that the chemical injected will, on contact with the water vapour membrane, spread out into the sand fill under slab.

The perforated length of each pipe does not exceed 8 metres. Lengths of wall or floor that are longer than 8 metres are serviced first by laying 8 metre-perforated lengths from both ends of the wall. Any remaining length is then serviced by laying additional pipes bridging any remaining gap. These bridging pipes are brought to the extremity of the building by
overlapping the shorter perforate pipe with unperforated lengths of pipe.
Each length of pipe is scaled at the innermost end and left protruding out of the footings at the outer most end. The outermost ends are then directed to a valve box, where they are all interconnected. Small taps are placed at the end of each pipe and then a non-return valve is fitted as the sole injection point for that particular valve box. Several valve boxes may be fitted according to the size of the house. The valve box is fitted with a strong lid, which is bolted for safety.

The building is serviced by removing the lid of the valve box, connecting up to the injection point an opening the taps one by one in order to inject each pipe individually. This insures that each area receives an equal amount of chemical with the desired spread though the soil under the slab.

Chemicals Used

As the system is merely a means of placing any given solution in any given place, it is capable of delivering most insecticides. However, the Termiticide specified for use with the system currently is the Organophosphate - Chlorpyrifos 500g/l and used according to AS3660-2000 at the rate of 5 litres per square metres at a pressure of 170kpa.

Quality Control

When an installation is completed, records are kept of the Termiticide used, the concentration level and the date treatment was carried out. The records kept are those required in the Australian Standard AS 3660-2000 Protection of buildings from subterranean termites Chemical treatment of soil for buildings under construction. A copy of the building plan is kept by the installer so that reference can be made as to where the pipes are laid if at any time in the future the injection points are hard
to find. This however, is not likely to happen, as the home owner is made fully aware of the importance of these injection points. The dwelling is inspected annually and further treatment is done only if suspected bridging has occurred or when the expected life of the chemical has expired.

Installers using the system must be licensed pest control operators who comply with these specifications and are approved by Injecta Pest Pty Ltd.