



# REFERENCE MANUAL



[www.kordontmb.com.au](http://www.kordontmb.com.au)



**BACKED** by **BAYER™**

## Termite facts

- Australia has approximately 300 species of termite, of which about 15 are likely to cause damage to the structural timbers of houses.
- Termites are more closely related to cockroaches than ants.
- Of the three groups of termites (dampwood, drywood and subterranean), subterranean species cause by far the most damage to timber in service.
- The most common are *Coptotermes*, *Schedorhinotermes*, *Nasutitermes* and the giant northern termite *Mastotermes darwiniensis*.
- Some species of timber are resistant to termites, but none is termite-proof. In practice, any structure containing wood is exposed to possible subterranean termite invasion unless protective measures are taken.
- Termites will often damage materials they cannot digest such as plastics, rubber, metal or mortar. Primarily, this damage occurs when the indigestible items are encountered in the termites' search for food.
- Apart from a few grass-eating species which forage in the open, all termites remain within a closed system of underground galleries or covered runways that extend from the central nest to food sources above or below ground.
- The gallery system of a single colony may exploit food sources over as much as one hectare, with individual galleries extending for up to 50 metres.
- Each termite colony is divided into three castes: workers, soldiers and the reproductive or alate caste.
- The alates are the potential kings and queens of new colonies. Unlike the other two castes, they have eyes, functional reproductive systems and wings. They leave the colony in swarms from spring to early summer or late summer to autumn.
- Traces of swarming alates are among the few obvious signs of termite activity. They normally swarm at dusk and may be attracted to lights at night, and are commonly found in spider webs.



## Australia's only repellent physical termite barrier

Kordon Termite Barrier is a uniquely flexible building protection tool that provides a combined physical and chemical termite barrier – and can easily be moulded or cut and joined to fit complex design features.

Complete underslab installation of Kordon provides an impermeable moisture barrier for the entire building as well.

Developed in Australia, Kordon is backed by the global resources of Bayer Environmental Science – the world's largest environmental science business group and most innovative source of responsible pest and disease management solutions.

Over 15 years of assessment by Bayer, Kordon has achieved 100% success as a physical termite barrier. Kordon has also been tested and evaluated by the CSIRO, State Forestry Departments, State Building Authorities and experts in building design.

When correctly installed, Kordon is covered by a 10-year warranty. This manual shows all the different ways in which Kordon can be installed to ensure that the warranty is valid – and that Kordon can be expected to remain effective for over 50 years. In the next few pages you will also find a brief explanation of how Kordon works and contact details for accredited installers in all areas.







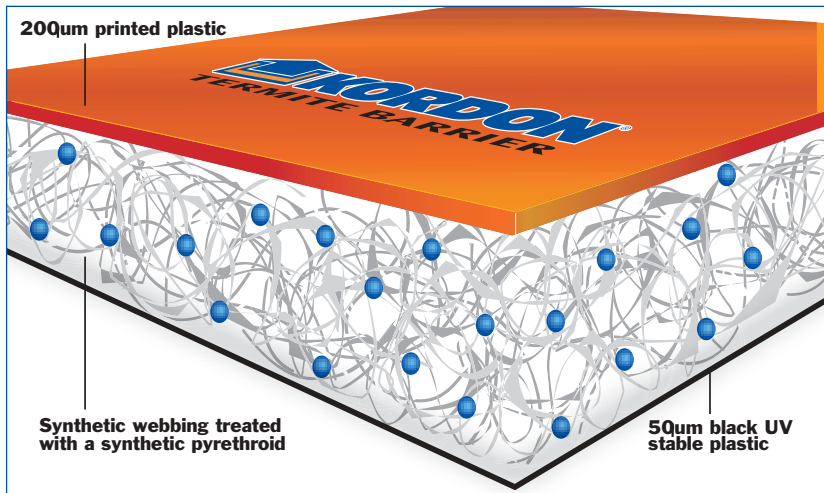
## How Kordon works

Kordon contains deltamethrin, a synthetic pyrethroid that kills termites which come into contact with it. Equally importantly, though, deltamethrin is a powerful termite repellent, so termites are very unlikely even to approach the barrier and attempt to breach it.

The deltamethrin is impregnated into a fibrous webbing which is then laminated on both sides.

The top orange 200-micron plastic layer provides the moisture vapour barrier, while the bottom black plastic layer encapsulates, protects and completes the physical termite barrier.

Kordon is classified as a building product and it is approved for use in local government areas where soil termiticide treatments have been prohibited.







## Backed by Bayer

The extensive testing of Kordon by Bayer and various independent authorities has established that the barrier should remain effective for over 50 years – the commercial life of a building.

Bayer back those findings with Kordon's 10-year \$100,000 structural timber replacement warranty against termite penetration when correctly installed by a currently accredited Kordon installer.

Once the building project is completed, Bayer and the accredited installer provide a complete set of documentation to the building owner. These documents include:

- the **Kordon 10-year Warranty**;
- a **Certificate of Compliance** to Australian Standard 3660.1-2000 and the manufacturer's specifications;
- an **Installation Report** detailing exactly where Kordon has been installed; and
- the **Annual Inspection Sticker** to record the date of regular inspections.

In addition, Kordon is certified by the Australian Building Codes Board – certification number 2003/001 – and has been tested and approved for use in 'allergen-free' construction.







## Compliance

Kordon TMB and Kordon Termite Barrier are Alternative Solutions under the Building Code of Australia, with the Assessment Method being that evidence is available that the use of Kordon TMB or Kordon Termite Barrier meets a Performance Requirement or a Deemed-to-Satisfy Provision.

Evidence of Suitability comprises reports from a Registered Testing

Authority, i.e. CSIRO, and other documentary evidence. The relevant BCA Deemed-to-Satisfy Provisions are acceptable Construction Manuals AS 3660.1-2000 *Termite Management Part 1 – New building work*. AS 3660.3-2000 *Termite Management Part 3 – Assessment criteria for Termite Management Systems* and AS 2870 *Residential slabs and footings code*.

Reference	Requirement	Evidence of suitability
AS 3660.1: C1 2.3.4	Termite resistant barrier.	ABSAC Technical Opinion 216: Kordon TMB satisfies the requirements of the BCA for protection from termites.
AS 3660.1: C1 2.3.4	Termite barrier consists of a product registered by the NRA for that purpose.	NRA Approval 48772/01: Kordon MC for application in production of Kordon TMB to protect buildings under construction from subterranean termite attack.
AS 3660.1: C1 2.2.1	Barrier system deters concealed entry.	ABSAC Technical Opinion 216 and CSIRO Appraisal 255: Installation instructions as provided by the manufacturer.
AS 2870: C1 5.3.3	Provision of a vapour barrier or a damp-proofing membrane.	ABSAC Technical Opinion 216: Kordon TMB satisfies the requirements of the BCA for damp proofing of floors on ground.
BCA vol 2, Qld variation P2. 1.1	Termite barrier to be durable.	ABSAC Technical Opinion 216 and CSIRO Appraisals Technical Assessment 255, on Durability: “These tests enable (Bayer) to claim effectiveness approaching the highly effective but environmentally unacceptable organochlorines”; “...results have been extrapolated for long time efficacy up to 50 years”





## Suggested specification details

### Item: **TERMITE CONTROL**

KORDON TERMITE BARRIER is to be used as a Perimeter and Service Penetration system (AS 3660.1-2000)

It is to be installed by a Manufacturer's Accredited Installer, as per the Manufacturer's installation instructions.

The builder is to provide all relevant slab details to the Accredited Installer for pricing, etc.

The builder is to treat the building's termite protection as a part of the building process and therefore included in the construction program.

### Item: **TERMITE CONTROL AND MOISTURE BARRIER**

KORDON TERMITE MOISTURE BARRIER is to be used as termite protection (AS 3660.1-2000) and as a damp-proof membrane as per AS 2870.

It is to be installed by a Manufacturer's Accredited Installer as per the Manufacturer's installation instructions.

The builder is to provide all relevant slab details to the Accredited Installer for pricing, etc.

The builder is to treat the building's termite protection as a part of the building process and therefore included in the construction program.



