



**“TECHNICAL & COMPLIANCE
INFORMATION”**

***SUMMARY OF BAYER KORDON TERMITE BARRIER TECHNICAL AND
COMPLIANCE DATA. TO BE READ IN CONJUNCTION WITH THE
DOCUMENT PREPARED FOR PERSONS WISHING TO CERTIFY KORDON
AS AN ALTERNATE SOLUTION BUILDING CODE OF AUSTRALIA 2006.***

Reports	Establishment / project	Report findings / conclusions
Aug.1996 Mr Eric Fox	Morgan Fox & Harvey Pty Ltd, 1 Great George Street, Paddington, Queensland 4064 'report on Kordon TMB in support of application for ABSAC approval'	This report includes a background summary of the development of the product, description and application, compliance summaries, performance criteria as a termite barrier, manufacture and supply details including an outline of quality control, including details, in-service performance, environmental aspects, and health and safety aspects. The upper membrane is an LPDE membrane 0.2 mm thick, orange in colour and has been assessed for compliance with the requirements for 'vapour barrier' and damp-proof membrane as stated in AS, AS2870- 1996
22 Aug 1996 S Runko	CSIRO Division of Entomology, Termite Group Report No 96/17 'Report of field tests after 6 years with deltamethrin impregnated Kodon blanket as a barrier against Australian subterranean termites	This report contains results of the sixth annual inspection of Kordon TMB field tests, which have been underway at sites in New South Wales and Northern Territory. In brief, 125 samples at ground level have revealed no penetration of treated blankets after six years while there has been extensive penetration of the untreated samples
16 Mar.2005 P V Gleeson	CSIRO Division of Entomology, Termite Group Report No.2005/9 "Evaluation of Kordon TMB as a barrier against field colonies of the Australian subterranean termites Mastotermes darwiniensis and the tree-nesting form of Coptotermes acinaciformis"	This report contains results of the second annual inspection of Kordon TMB field tests, which have been underway at sites in NSW and the Northern Territory. The trial is being performed using the current version of Kordon TMB with the new fibrous sheet. In brief, all the experimental Kordon TMB units remained in tact and have revealed no penetration of treated blankets after 2 years while there has been penetration of the untreated control samples.
5 Sept. 2005 (W. Whitby)	CSIRO Division of Entomology, Termite Group Report No 2005/19 "Report on field trials after 15 years with deltamethrin- impregnated Kordon blanket as a barrier against Sub- termites at sites near Griffith NSW and Darwin NT	In brief, all Kordon TMB samples at ground level revealed no penetration of treated blanket after 15 years while there has been extensive penetration of the un-treated control samples and the treated samples that did not contain the moisture-proofing membrane that forms part of Kordon TMB

<p>20 May 1998 Dr. Russell Varley</p>	<p>CSIRO Molecular Science Report, 'Insecticide Controlled Release TMB: Phase 4–Part 2 Ageing of Webbing Alternate Candidates'</p>	<p>This report contains results of an experimental program to evaluate various alternative materials (including both the original fibrous web used in Kordon TMB and the fibrous web currently used in Kordon TMB. The webbings were subjected to 100 degree C and 45 degree C at relative humidity 98% for 4 weeks to determine whether there was any difference in the stability of deltamethrin on the alternate fabrics. In brief, ageing at 100 degree C suggested that the fibrous web currently used in Kordon TMB provided performance at least comparable with the performance of the old fibrous web. Ageing at 45 degree C at high humidity had little effect on the deltamethrin regardless of the type of webbing</p>
<p>21 July 1998 Dr. Russell Varley</p>	<p>CSIRO Molecular Science Report, 'Insecticide Controlled Release TMB: Phase 4–Part 2 Ageing of Webbing Alternate Candidates'</p>	<p>This report contains results of an experimental program to evaluate various alternative materials (including both the original fibrous web used in Kordon TMB and the fibrous web currently used in Kordon TMB. The webbings were subjected to 70 degree C and 85 degree C to determine whether there was any difference in the stability of deltamethrin on the alternate fabrics. In brief, ageing at 70 and 85 degree degree C suggested that the fibrous web currently used in Kordon TMB provided performance at least comparable with the performance of the old fibrous web.</p>
<p>17 May 1996</p>	<p>University of Sydney, Department of Mechanical and Mechatronic Engineering, New South Wales 2006 Test Certificate</p>	<p>This report on the Kordon Blanket provides results for density, impact resistance and elongation at break. It concludes that membranes are 'tough, reliable, and readily adaptable'</p>
<p>10 May 1996</p>	<p>Insearch Ltd (Can 001 425 065) Project number E95/09/110 Compliance Strategies for accreditation of Kordon TMB (Termite Moisture Barrier) through the Australian Building Systems Appraisal Council for AgrEvo</p>	<p>Topics discussed in this report include background, installation considerations, durability considerations, microscopy and strength performance issues.</p>

9 January 1996	Gelpack Enterprises Pty Ltd, 117 Newton Road, Wetherill Park, New South Wales. Test Report on Building Film for Joyce Australia	This report of testing provides results of impact strength (ASTM D 1709-62T), tear resistance (ASTM D 1922-67). The results were satisfactory for a water vapour membrane under concrete slab on ground.
24 September 1996	Casey TAFE, Client Services- Technology, Centre for polymer Technology, 121 Stud Road, Dandenong 3175 Technical Report Summary ESPRC No 133/96	This report is on penetration resistance of water vapour barriers to falling aggregate and water vapour performance. The results meet the requirements of compliance with AS2870.
11 June 1999 Associate Professor Frank Murray	Murdoch University, Perth, Institute of Environmental Science, Division of Science and Engineering. 'Deltamethrin of Volatile Organic Compounds and Potential dust emissions from Kordon Termite Barrier'	Kordon produced no measurable VOCs nor were airborne dust emissions detected during cutting. Kordon is suitable for "low allergen housing"
21 June 1999 G. Simundic	The University Of Newcastle, NSW, Department of Surveying and Environmental Engineering. "The Shear Capacity Testing Of Kordon"	The tests indicate the presence of Kordon in a perimeter wall installation will not compromise the capacity of the wall to resist wind loads.
10 June 2004	Bayer Environmental Science, Hawthorn East VIC 3123. "Reference Manual-Kordon Termite Barrier"	This manual contains information about the system specifications, warranty, installation details, and accredited installers, Bayer Environmental Science is a business division of Bayer Crop Science Pty Ltd
24 Aug 2001 Jeffrey Einam	Aventis Environmental Science Report. "Retention analysis of Kordon Termite Barrier exposed to the environment following installation on a concrete slab"	In study the level of retention of deltamethrin in Kordon TMB when exposed to the environment for three months was investigated. The level did not deplete below minimum spec of 1.0 g/m/sq metre following this three month outdoor exposure
27 Feb 1998 Dr. Russell Varley	CSIRO Molecular Science Report, 'Insecticide Controlled Release TMB: Phase 4–Part 1 Initial deltamethrin concentrations'	This report contains results of an experimental program to evaluate various alternative materials (including both the original fibrous web used and the fibrous web currently used in Kordon TMB In brief, performance of both versions of the fibrous web was comparable

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10 June 2004	Bayer Environmental Science, Hawthorn East VIC 3123. “Reference Manual-Kordon Termite Barrier”	This manual contains information about the system specifications , warranty, installation details, and accredited installers, Bayer Environmental Science is a business division of Bayer Crop Science Pty Ltd
22 June 2004	Bayer Environmental Science, Hawthorn East VIC 3123. “Internal Specification DocumentAU4KTMB v 03: Kordon Termite Blanket”	This document contains the specifications of the Kordon Termite Barrier and is applicable to Kordon TMB and Kordon Termite Barrier
15 March 1996	Bayer Environmental Science, Hawthorn East VIC 3123. “Summary Section from ‘Part 8 – Efficacy and Safety’ from submission to the National Registration Authority for registration of Kordon Manufacturing Concentrate”	This is the summary of the chemical used in the fibrous layer. It has been tested as a termiticide for the last six years. Based on degradation studies in soil, and given certain assumptions, results have been extrapolated for long term efficacy.
27 September 1996	National Registration Authority for Agricultural & Veterinary Chemicals Barton, ACT ‘Notice of registration of a chemical product and approval of label under the Agvet Codes	This was issued to Hoechst Schering AgrEvo for Kordon Manufacturing Concentrate. (now owned by Bayer Crop Science Pty Ltd)
July 2002 Mr Phil Morrow	Aventis Environmental Science Report “Review of the Service Life Expectancy of Kordon TMB and Kordon Termite Barrier for Protection of New Buildings from attack by subterranean termites”	The rate of degradation of chemical can be measured and is expressed as a half-life ie the period for a chemical to degrade to half its original concentration. The level of deltamethrin in Kordon below which it can cease to function as an effective barrier can be estimated by experiment. Hence the number of half-lives of Kordon to no longer repel termites can be calculated. The report demonstrates, via modelling, the service life of Kordon to be at least 50 years and expected to be still functional after 60 years
8 January 2003 Dr Michael J Kennedy	Queensland Government, Department of Primary Industries, Forest Products Division, QFRI	Dr Kennedy agreed to the conclusion that the service life expectancy of Kordon Termite Barrier was well founded

14 December 2000 Mr Barry Schaffer	CSIRO Building Products and Systems Appraisals. “Kordon Compliance To Australian Standard 3660.3-2000 Assessment Criteria For Termite Management Systems”	“The testing undertaken to date on the Kordon, complies with the testing requirements as set out in AS3660.3, 2000”
7 June 2001 Mr Barry Schaffer	CSIRO Building Products and Systems Appraisals “Acceptable areas of reduction of 75mm inspection zone”	Confirmation of reduced clearances where there is a permanent hard surface
1 January 2003 Mr P Jankovic	South Australia HIA Technical Committee. SA Housing Code Amendment 9	Clause 2.6.2 specifies where a permanent termite barrier is installed and there is a raft slab with a rebate the paved area shall be a minimum 15mm below the finished concrete level of the edge rebate.
24 September 2003	Bayer Crop Science Pty Ltd “Kordon Kollar Specification”	This Provides details of the manufacture of the prefabricated Kollars and the specification for the final Kollar