



WORLD'S FIRST PATENTED ENZYME TECHNOLOGY FOR THATCH CONTROL

A breakthrough in non-disruptive thatch management.

RESULTS FOLLOWING A THATCHZYME PROGRAM

- Longer, stronger root depth
- Improved water infiltration
- Improved moisture management
- Increased surface uniformity
- Enhanced stress resilience
- Improved disease resistance
- Reduced nematode impact

TESTED

Thoroughly tested
& evaluated

PROVEN

Proven results
across ANZ

SIMPLE

Flexible & easy
to spray program



HOW IT WORKS

Thatch is an intermingled layer of dead and living plant parts. Lignin is the plant cell wall component which is the resilient and slow-to-degrade component of thatch. Lignin surrounds the readily degradable cellulose and hemicellulose layers in plant cell wall.

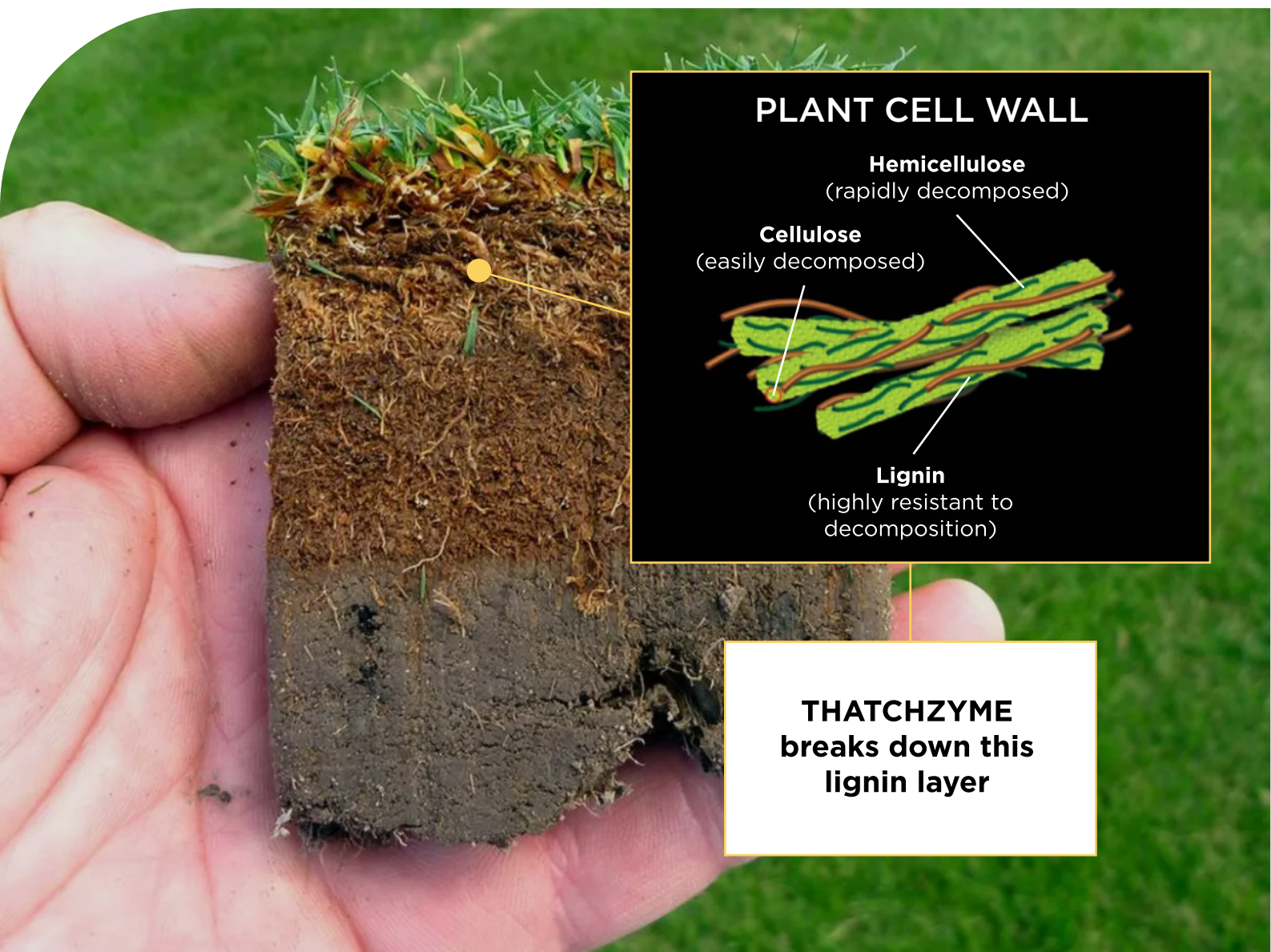
THATCHZYME is the first proven sprayable solution for effective thatch management. It utilises Laccase, a scientifically proven enzyme known for breaking down lignin. Although soil fungi naturally produce Laccase, levels are insufficient to counter the rapid accumulation of turfgrass thatch. THATCHZYME addresses this shortfall by delivering a potent dose of Laccase directly into the thatch layer.

Think of thatch like a coconut. The soft inner tissue (cellulose) breaks down easily—but the tough outer shell, that's lignin. So when THATCHZYME delivers a concentrated dose of Laccase, it's like cracking through the coconut shell so the rest can break down naturally.

While beneficial fungi normally produce Laccase, modern turf practices suppress its activity. THATCHZYME puts it right back where it's needed: the thatch layer. Break through the barrier. Let nature do the rest.

“ Throughout turf management history, for every need, there's a tailored solution — grass seed for coverage, fertiliser for growth & recovery, pesticides for pest control, surfactants for water management, PGRs for growth regulation... **and now THATCHZYME for thatch management.** ”

DR. PHIL DWYER - Turf Pathologist

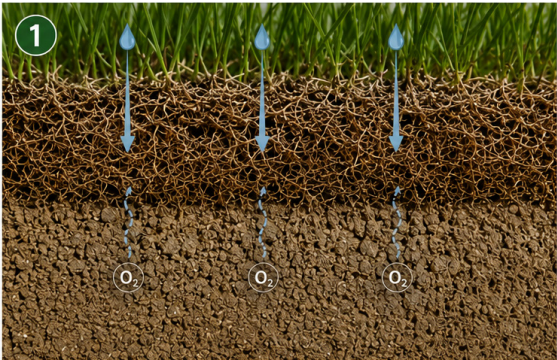


THATCH BREAKDOWN PROCESS

01

EXCESS THATCH

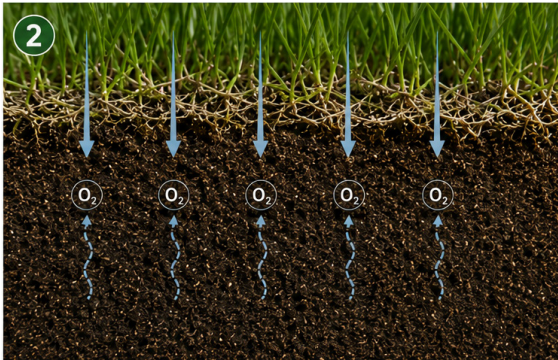
Dense thatch layer at the thatch/soil interface reduces macroporosity and limits water infiltration and oxygen diffusion.



02

RESTORED MACROPOROSITY

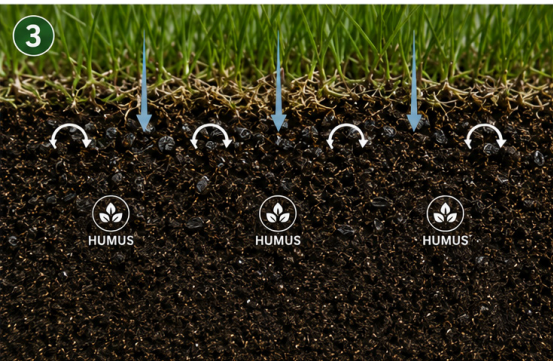
Once ThatchZyme is applied, thatch is broken down, reopening large pore spaces (macropores) at the thatch/soil interface.



03

HUMIFICATION

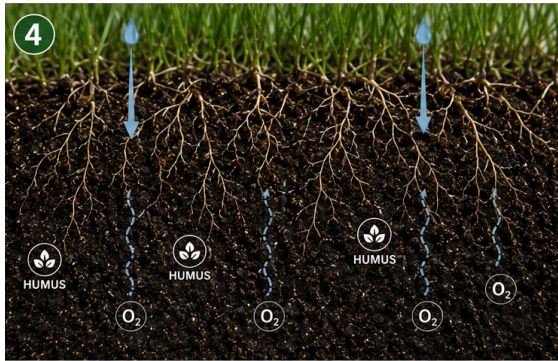
As thatch is degraded by ThatchZyme and microbes, part of it is converted into stable carbon (humus) through a natural process called humification.



04

HEALTHIER ROOTZONE

Humus moves deeper with percolating water, binds within the soil profile and enriches the rhizosphere by stimulating microbial activity and root health.



	OM-LOI % (ORGANIC MATTER MEASURED BY LOSS ON IGNITION)		RELATIVE CHANGE %
	17/12/2025	31/03/2026	
0-2cm	2.69	2.21	-17.8
2-4 cm	1.82	2.00	9.9
4-6 cm	1.06	1.56	47.2

Organic matter accumulation increases below 2cm depth, indicating humification, where decomposed thatch is converted into humus and redistributed deeper into the soil profile through improved water infiltration.

■ PROVEN RESULTS

UNTREATED

Dense, saturated thatch

Distinct thatch/soil barrier

Potential black layer

Limited root growth



NEW ZEALAND CAMPUS OF INNOVATION & SPORT



UNTREATED



THATCHZYME

BONNIE DOON GOLF COURSE

FEB - JUNE 2025

■ DID YOU KNOW?

Golf greens currently contain surface thatch levels on **average 60% higher than desirable** for optimal turf health and playability, according to the STRI.

Some parkland courses were reported with more than 25% organic matter in the top 20mm, compared to a target of 4-6%. Even links courses were found to have up to 12% organic matter extending down to 40mm from the surface, with an average 7% in the top 20mm - still 40% above the target level.

STRI agronomists warn excess organic matter retains great moisture that leads to **surface softening and increased disease pressure.**



THATCHZYME

Macropores opening the profile

Humus moving through the profile

Better moisture distribution

Improved root development

MARCH - MAY 2026

UNTREATED



THATCHZYME



CHELTENHAM GOLF COURSE
JAN - APRIL 2026

INDOOROOPILLY GOLF COURSE
NOV 2025 - FEB 2026

LAKE KARRINYUP GOLF COURSE
NOV 2025 - APR 2026

CUSTOMER TESTIMONIALS

“ Managing thatch across multiple playing fields has traditionally relied on labour-intensive mechanical practices. Since introducing ThatchZyme, results have been visible within three months, improving surface firmness, reducing the spongy feel underfoot, and helping lower maintenance time and green waste costs. It’s now an important part of our ongoing turf management program. ”

BRANDON D’AMORE
Sports Ground Head Curator,
Trinity Grammar School, Kew



“ Following 11 flood events since 2020, substantial profile layering had developed in profiles. After just three applications, we are already observing significant improvement, with the layering breaking down and the profile visibly more consistent. Seeing this level of progress so quickly is very encouraging. ”

MATTHEW BAILEY
Lynwood Golf & Country Club



“ After just two applications of ThatchZyme, surface firmness, putting quality and ball roll all improved. Water infiltration also increased significantly, making irrigation more effective without the need for disruptive mechanical intervention. ”

BRETT RAWSON
Sale Golf Club





“ Turf plugs were sampled after the 4th application. Longer roots and white haired roots were observed in the areas where ThatchZyme was applied, compared to non-treated areas. ”

LEON HENNESSY
Cromer Golf Club

“ The results we are seeing after 4 applications are better root structure, slight increase in firmness and good health without issues in some troublesome greens. ”

ROB SAIN
Monash Country Club



“ It's been a genuinely valuable addition to our turf management program, and the results have exceeded expectations. ”

TODD LILLICRAP
Darwin Golf Club



RATES & FREQUENCY

Fine turf:

1.3 L/ha every 2 weeks or 2.6 L/ha monthly.

Sportsturf & amenity turf:

1.3-2.6L/ha monthly.

Adjust based on:

Thatch level, soil texture, climate, budget.

APPLICATION NOTES

Compatible with nutrition, wetting agents, pesticides.

Irrigate lightly (ideally 3 mm) same night.

Avoid mixing with acidic products.

Avoid applying before heavy rain.

Works above 0 °C; best when turf is growing.

SCIENCE MEETS PERFORMANCE

Thatch management is most effective as part of a complete program.

Customer experience has shown that ThatchZyme works best in conjunction with a MATCHplay Superior Liquids nutrition program, complemented by regular aeration and topdressing. Your Living Turf Technical Support representative can tailor a program to suit your objectives, site conditions and budget.

THATCH•ZYME®

MATCHplay
QUALITY TURF



CONTACT LIVING TURF ABOUT THATCHZYME TODAY

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Scientific Turf Management
EST. 2003