

# Penterra

**Penterra is an effective soil penetrant and soil surfactant product for addressing hydrophobic profiles and horizons. Penterra keeps soils from locking up, aggregates clay soils, improves soil structure and allows water and oxygen to better reach plant roots by reducing the surface tension between the water and the soil.**

**Growth and activity of micro-organisms is improved due to the increased oxygen content of the soil. It also has a beneficial secondary effect on localised dry patch, so you are adding long term soil management to the turf and plants to make them healthier and increase its disease tolerance.**



- Extremely fast penetrant, economical, and environmentally friendly.
- Relied on by turf managers around the world for fast dry down of all turf surfaces following heavy rain.
- Gives an improved air to water ratio to maximise oxygen supply to the soil, increase rooting and soil microbiological activity leading to enhanced thatch breakdown and reduced plant stress.
- Best practice is to wash the product off the leaf into the soil as that is where the product has its effect.

Product	Pack Size	Rate	Water Volume
Penterra	10 litres	1.6-4 litres/ha	300-600 litres/ha

Usage Period												
Product	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Penterra	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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- Gets surfaces firm and playable quickly and limits damage from play on soft, unstable surfaces.
- Concentrated formula utilizing low application rates makes Penterra a cost-effective penetrant.
- Aids with dew and frost prevention.
- Optimal application of Penterra would be the morning before a regular - heavy irrigation cycle.



- Do not mix with liquid fertilisers when attempting foliar feeding at a low water volume (due to leaf wash-off).

Issue	Suggested Solutions
<p><b>Golf greens needing to prevent soft surfaces and closure before heavy rain is forecast.</b></p>	<p>Apply Penterra at 4l/ha directly before the rain is due. Allow the rain to wash the product in.</p>
<p><b>Water not penetrating through upper thatch layers, but soil below the thatch still dry causing poor rooting and disease issues.</b></p>	<p>Apply Penterra at 4l/ha every 3-4 days and water in. Once water has percolated through, return to applications every 2-4 weeks as required.</p>
<p><b>Fairways and sports pitches looking to reduce run-off and ensure rainfall or irrigation gets down into the soil.</b></p>	<p>Apply Penterra at 1.6 - 4l/ha every 2-4 weeks or as required.</p>

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