



The Turf Underlay is a superior mix that creates a thriving lawn environment. It is specially developed for use in both residential and amenity turf areas. The mix contains minerals and inorganic components, as well as a percentage of organic products for better structure and nutrition. The Turf Underlay has high permeability which creates a free draining environment to decrease the chance of fungal growth.

Laboratory analysis has been compared to Leake and Haege (2024) Specification C1: Passive Amenity Turf. It is also tested for Bulk Density, Saturated Bulk Density & Environmental Compliance as special requests outside the general Australian Standard suite.

Test Results:

February 2026

Physical Properties		Units	Target Range	Results
Particle Distribution	2 mm (Fine Gravel)	% Retained by Mass	< 10	9.19
	1.0 mm (Very Coarse Sand)		< 10	5.76
	0.5 mm (Coarse Sand)		10 - 30	22.9
	0.25 mm (Medium Sand)		20 - 40	35.3
	0.1 mm (Fine Sand)		10 - 30	10.8
	0.05 mm (Very Fine Sand)		5 - 15 (max 25% combined v/s, Si + Cl)	9.37
	0.002 mm (Silt)		< 8 (Si + Clay combined) 8-15	3.73
	< 0.002mm (Clay)		3 - 8	2.91
Large particles (naturally occurring)	2 - 20mm	% w/w by mass	<10	9.8
	>20 mm	% w/w by mass	0	0
Organic matter content		% w/w	2 to 6	11.6
Permeability (16 drops McIntyre Jakobsen)		mm/hr	>30	2158
Water Repellence*		S	≤ 60	114
Chemical Properties		Unit	Target Range	Results
pH in water (1:5)		pH units	5.4 - 8.0	6.92
Electrical Conductivity (1:5)		dS/m	< 0.5	0.99
Exchangeable Na percentage		% of ECEC	≤ 15	2.9
Exchangeable Ca:Mg ratio		Ratio	3-9	3.6
Available phosphorus 18E1		mg/kg	50 - 150	75
Available nitrogen (N as nitrate)		Mg/kg	20 - 60	6.2
Additional Testing		Units	Target Range	Results
Saturated Density		kg/L	No Requirement	1.37
Dry Bulk Density		Kg/L	No Requirement	0.79
Asbestos **			No Requirement	Not Detected

Polarized Light Microscope and dispersion staining method.

* Water repellence (AS4419 2018) supersedes wettability (AS4419 2003).

** Subcontracted - Polarized Light Microscope and dispersion staining method. SGS Laboratories SE269278.



Scapeworks Turf Underlay - The media comprises a loamy sand and will provide moderate resistance to compaction in public and other amenity turf areas subject to moderate levels of pedestrian traffic. The Urban Soil Doctor (TUSD) was requested by Scapeworks Australia to conduct in-situ sample collection at Scapeworks Australia's yard, and oversees the analyses and reports on products collected.
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