

Turf Underlay



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

The Turf Underlay is tested to Specification C1 – Passive Amenity Turf from the text Soil for Landscape Development by Leake and Haege. It is also tested for Bulk Density, Saturated Bulk Density & Environmental Compliance as special requests outside the general Australian Standard suite.

| Results: | | | | February 202 |
|---------------------------------------|--------------------|-------------------------------------------|---------------|--------------------------|
| Physical Properties | Unit | Target Range | Results | Comments |
| 2.0 mm (fine gravel) | % retained by mass | < 10 | 3.61 | Acceptable |
| 1.0 mm (very course sand) | % retained by mass | < 10 | 5.81 | Acceptable |
| 0.5 mm (coarse sand) | % retained by mass | 10 - 30 | 7.36 | Acceptable |
| 0.25 mm (medium sand) | % retained by mass | 20 - 40 | 60 | High |
| 0.1 mm (fine sand) | % retained by mass | 10 - 30 | 1.25 | Low |
| 0.05 mm (very fine sand) | % retained by mass | 5 - 15 (max 25% combined of vfs, si + cl) | 1.12 - 21.97 | Acceptable |
| < 0.05 mm (fine particles) | % retained by mass | 3 - 8 | 1.18 | Slightly Low |
| Large Particles | % by mass | 2 - 20 mm = < 10% > 20mm = 0% | 3.61 <0.01 | Acceptable Acceptable |
| Organic Matter Content | % w/w | > 2 to 8 | 8.1 | Acceptable |
| Permeability | mm/h | > 30 (@ 16 Drops) | 1062 | Acceptable |
| Wettability (AS4419) | mm/min | > 5 | 18 | Acceptable |
| Dispersibility in Water | Category | 1 or 2 (AS4419) | 1 | Acceptable |
| Chemical Properties | Unit | Target Range | Results | Comments |
| pH in Water (1:5) | pH units | 5.4 - 8.0 | 5.87 | Acceptable |
| pH in CaC12 (1:5) | dS/m | 5.2 - 7.5 | 5.44 | Acceptable |
| Electrical Conductivity (1:5) | mg/L | < 0.5 | 0.67 | Acceptable |
| Exchangeable Na percentage | mg/L | < 7 | 12.1 | Acceptable |
| Exchangeable Ca:Mg ratio | mg/L | 3 - 9 | 2.5 | Slightly High |
| Available Phosphorus | - | 50 - 150 20 - 50 | 31 | Slightly Low |
| Available Nitrogen (NO ₃) | mm | 20 - 60 | 0.32 | Low |

When requesting test information, please read the comment below:

Scapeworks commissions independent testing to specifications from "Soils for Landscape Development: Selection, Specification and Validation - Leake and Haege" as well as the relevant Australian Standards 3743 and 4419. to collect as much information as we can on the fit

for purpose performance of the mixes. All independent declaration of compliance and independent testing results are available upon request. Our focus is to provide structurally robust and environmentally responsible growing media that encourages healthy plant life.



Scapeworks Australia

Bulk Density 0.91kg/L. Saturated Bulk Density 1.4kg/L

"We consider the material fit for purpose as a turf underlay in all but high grade sports field situations provided the turf is fertilized once established as is normal practice" -**SESL** Australia.