

## DATA SHEET

# SKY GARDEN CU-STRUCTURAL TREE SOIL STS01

Version 1.0

### SKY GARDEN CU-STRUCTURAL TREE SOIL

CU-Structural Tree Soil is a designed tree rootzone growing medium which can meet or exceed Engineering pavement design and installation requirements while remaining root penetrable and supportive of tree growth. It was developed as a result of years of testing by UHI (Cornell's Urban Horticulture Institute) and is focused on combining the essential Engineering, as well as horticultural properties, as required for both the trees and the pavement.

For more information visit [www.landtechsoils.ie](http://www.landtechsoils.ie)





## PERFORMANCE CHARACTERISTICS

- Improved water retention: Structured tree soil mix retains moisture effectively, ensuring adequate hydration for tree roots even in dry urban environments.
- Enhanced drainage: The mix facilitates proper drainage, preventing waterlogging and root suffocation.
- Reduced compaction: Its composition helps alleviate soil compaction, allowing tree roots to penetrate and establish more easily.
- pH balanced: The mix is often adjusted to maintain a neutral to slightly acidic pH level, which is optimal for most tree species.

## PHYSICAL PROPERTIES

Particle size distribution	Composed of a balanced mixture of limestone, compost and gel tackifier to ensure adequate aeration, drainage, and water retention.
Organic matter content	Contains organic materials such as compost to enrich the soil with nutrients and improve its structure.
Porosity	Designed to have sufficient pore space to allow for air exchange and water infiltration, crucial for root respiration and nutrient uptake.
Texture	Exhibits a friable texture that facilitates root penetration and growth while providing structural support for the tree.

## TECHNICAL PROPERTIES

pH	6.5 – 7.5
Salinity	Maintains a low salt content to prevent salt stress on tree roots and minimize the risk of soil degradation over time.

CU-Soil is a gap-graded aggregate which is made up of crushed stone, clay loam, and a hydrogel stabilizing agent. For proper installation the materials must be compacted to meet the relevant pavement design requirements, yet allow for sustainable tree root growth. The new system essentially forms a rigid, load bearing stone lattice and partially fills the lattice voids with soil



**T** 01242 620905  
**E** enquiries@sky-garden.co.uk

### Head Office

Unit 3, Miller Court  
Tewkesbury, Gloucestershire,  
GL20 8DN

01242 620905

### London Office

Kemp House,  
152 City Road,  
London. EC1V 2NX

02035 030927

