



## **TreeLife Urban™: Why It Works**

### **Nature-Based Innovation for Urban Soil Health**

TreeLife Urban™ is an organic fertiliser created through the aerobic breakdown of local organic materials by beneficial native micro-organisms (bacteria, fungi, actinomycetes, yeast). This process unlocks nutrient-rich soil amendments that dramatically improve soil health and plant vitality.

### **Key Benefits of TreeLife Urban™**

#### **1. Organic Substrate with No Toxins**

Balanced humidity and oxygenation eliminate undesirable byproducts and keep TreeLife Urban™ clean, safe, and easy to use.

#### **2. Flexible and Scalable**

Perfect for community green-spaces, urban plantings, or any soil type or climate—TreeLife Urban™ adapts to your needs.

#### **3. Natural Disease Control**

Our microbes boost healthy soil ecosystems, suppressing harmful pathogens naturally and supporting plant resilience without chemicals.

#### **4. Fast Results & Reliable Performance**

Enjoy quick, soil-ready nutrients with no need for expensive return operations for failed transplants.

#### **5. Powered by Nature—Crafted Locally**

Sourced from locally available organic materials, TreeLife Urban™ cuts environmental impact and supports your region's sustainability.

#### **6. Customisable & Evolving**

Tailored recipes and flexible formulations mean TreeLife Urban™ is innovative, adaptable, and always improving.

#### **7. Stimulates Plant Growth**

High in phytohormones and natural plant regulators, our fertiliser supports strong, vital plant development.

#### **8. Promotes Root Health**

Fermentation-activated rhizobacteria enhance root growth and nutrient uptake for long-term benefits.



## **Science backed formula: How TreeLife Urban™ is Made**

### **Stage 1: Stabilisation Phase**

- High microbial activity—temperatures rise to 70–75°C.
- Easily degradable materials break down first.
- Safety and sanitation assured as pathogens are destroyed.

### **Stage 2: Maturing Phase**

- Slower, deeper decomposition.
- Stable, microbe-rich, and safe final product that's ideal for soil health.

### **Key Performance Conditions**

- Temperature peaks: 50–60°C (max ~73°C)
- pH: 6.0–7.5 (supports microbial life)
- Humidity: 50–60% (avoids rot or dryness)
- Aeration: Oxygenated for aerobic fermentation
- Particle size: Balanced for microbial access
- C:N ratio: 1:25–35 (balanced decomposition)

## **Evidence in Action: The Process Visualised**

The evolution of temperature and pH through four fermentation phases:

- A. Mesophile: Activation, warm temps, acidic pH
- B. Thermophile: Temperature and pH peak
- C. Cooling: Slowing, approaching neutral pH
- D. Maturing: Stabilised, safe compost for plants

## **Regenerative Impact**

TreeLife Urban™ does more than feed plants—it regenerates ecosystems while empowering users to restore soil health themselves.

## **Why Choose 59 Degrees Soil Architects?**

- Urban and community soil solutions crafted with science and care
- BioComplete™ Soils for truly living, resilient landscapes
- Focused on education, sustainability, and customer empowerment