



## **ESTD – THATCH DIGESTER**

**ESTD** is a natural product, formulated to accelerate the decomposition of lawn thatch, grass clippings and other biodegradable soil residue. When used as directed, **ESTD** can also:

1. Aid in the restoration of soil biomass
2. Aid in building humus
3. Promote both soil and plant health

Thatch management can take several forms. The least labour-intensive method involves the application of **ESTD** Lawn Thatch Digester. **ESTD** stimulates soil microbes that accelerate the natural decomposition of lawn thatch. In addition, **ESTD** contains natural organic constituents that promote grass growth. To optimize thatch control, apply **ESTD** in early spring when the lawn is in vigorous growth.

### **THATCH BACKGROUND:**

Lawn thatch is a layer of undecomposed stems, roots and other debris that accumulates near the soil surface. When thatch becomes excessive, the lawn may root into the thatch rather than the soil. Since thatch does not hold moisture, lawns rooted into thatch will not tolerate dry weather or cold temperatures. Thatch can harbor insects and diseases, limit root development and restrict water infiltration. The rate at which thatch accumulates is determined by moisture, environmental conditions and the type of grass. Over application of nitrogen promotes thatch accumulations. The type and vigour of the grass determine the rate at which thatch accumulates. For example, a thatch prone bluegrass sod that is given lots of water and fertilizer, forms thatch more rapidly than other grasses given less care. Thatch is a normal part of any lawn and only becomes harmful when the thatch layer is thicker than 1 to 2 centimetres.

Thatch can also be controlled with power raking, coring, and/or topdressing. A power rake uses power driven blades to bring the thatch to the surface. This method can result in lawn injury and, as a result, reseeding may be required. Power raking should be carried out in late fall or early spring. Coring machines remove cores of soil and sod. This aids in thatch reduction by permitting air and moisture to penetrate the thatch. Top dressing with a thin layer of soil can also aid in decomposing lawn thatch.

### **BENEFITS OF ESTD:**

- Super concentrate
- Pet safe, environmentally safe
- Non-toxic, non-caustic, non-corrosive, non-flammable
- Does not contain VOC's or petroleum distillates
- Derived from natural plant extracts, no chemicals, dyes or perfumes
- Stimulates the growth of beneficial bacteria
- Safe - requires only a minimum of safety equipment
- Persistent - provides continuing, long lasting benefits

**APPLICATION RATES & INTERVALS (per 100 square metres):**

Thatch Thickness	Application Rate	Interval
< 1 centimetre (Prevention)	34oz in 5 to 6 Gallons of water	Once / Season
1 to 2.5 centimetres (Prevention)	34oz in 5 to 6 Gallons of water	Twice / Season
> 2.5 centimetres (Reduction)	68oz in 8 Gallons of water	Twice / Season

\*\*Over application can be a benefit - **ESTD** does not burn grass, flowers, trees etc.  
**ESTD** can be mixed with [ESLF](#) grass & turf fertilizer

**ESTD TANK MIXING INSTRUCTIONS:**

**ESTD** is highly concentrated and must be diluted in water

**Step 1:** Fill tank with half the recommended water

**Step 2:** Add the appropriate amount of **ESTD** and agitate

**Step 3:** Add remaining water and thoroughly agitate

**SAFETY:**

**ESTD** is produced in accordance with NOSB (National Organic Standards Board) guidelines. The materials used in the production process are derived from naturally occurring and sustainable sources and are consistent with organic principals and the National List of Allowed Substances. **ESTD** does NOT contain synthetic chemicals, animal components, and animal by products, manure or manure by-products. **ESTD** is environmentally safe and is not harmful to animals, plants and humans.

**COMPLIANCE:**

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3. 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8.

**STORAGE & HANDLING:**

Do **NOT** freeze. Store in a cool location away from direct sunlight - No special handling required

**PACKAGING:**

2 Litre Jug

20 Litre (5 gallon) HDPE Pail

205 Litre (45 gallon) Barrel

1000 Litre Tote