TECHNICAL
Data Sheet

Thatch Treat (TT)

BIO·GREEN PLANET®
environmental products for a greener planet

Key Benefits

- **Accelerates Thatch Decomposition:** Harnesses beneficial to convert thatch and mat into stable organic matter.
- **Improves Surface Firmness and Playability:** Reduces spongy turf and restores firm, smooth playing conditions.
- **Improves Water and Nutrient Flow:** Breaks up the dense thatch barrier, improving gas exchange, infiltration, and nutrient availability.
- **Enhances Soil Biology and Structure:** Supports ongoing organic matter reduction and soil health improvement.
- **Reduces Labor and Disruption:** Reduces the need for frequent verticutting or coring while keeping turf surfaces playable.
- **Supports Sustainable Turf Management:** compatible with IPM and BMP programs; safe for greens, fairways, sports fields, and lawns.

Product Description

Thatch Treat (TT) is a microbial thatch remover that delivers natural biological thatch control for professional turf systems seeking an alternative to verticutting and core aeration. This microbial and enzymatic formulation combines beneficial bacteria and fungi for thatch decomposition, producing cellulase, xylanase, and laccase enzymes that break down lignin, cellulose, and hemicellulose within the turf thatch layer. As the thatch softens, these microbes consume and convert organic residues into stable humic compounds, improving soil structure, infiltration, and nutrient flow. By biologically degrading fibrous organic matter throughout the profile, Thatch Treat delivers complete, uniform thatch reduction while enhancing firmness, infiltration, and turf resilience without the disruption, downtime, or labor of mechanical methods.

Applications

- Golf Greens, Tees & Fairways
- Sports Turf & Stadium Fields
- Lawn Care & Landscape Management
- Turf Renovation & Transition Programs
- Sustainable Turf Programs

Packaging Options

- Powder: Supplied in
  - 5lb (2.25 kg) jars
  - 22 lb (10 kg) pails
  - 185 lb (85 kg) drums

Concentration (CFU/g):

- Powder: 5 billion CFU/g dry powder
- Custom concentrations available upon request

Shelf Life & Storage

- 18 months at room temperature
- >24 months refrigerated
- Store in a cool, dry location away from direct sunlight.
- Reseal container tightly after each use.

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Application Guidelines

	Range	Optimal
pH Range	4.5 – 9.5	5.5 – 7.5
Temperature	45°F – 113°F (7°C – 45°C)	68°F – 95°F (20°C – 35°C)

Application Rates

Initial Application:

- **Apply 30–50 grams per acre (75–125 grams per hectare)**
- Mix thoroughly with water using 20–40 gallons per acre (190–375 liters per hectare) of spray volume for uniform coverage. Apply via backpack, boom, or hose-end sprayer or through a light irrigation cycle or fertigation system. Avoid heavy irrigation that may wash microbes below the thatch layer and reduce thatch contact.
- To ensure complete hydration, first shake the powder with a small amount of water in a closed container until fully dispersed, then add the mixture to the spray tank.

Follow-Up Application:

- A second dose equal to the initial rate may be applied after 4–8 weeks to enhance dethatching activity or restore microbial levels if herbicides, fungicides, or pesticides were applied before decomposition is complete.

Application Notes:

- Mix thoroughly with water and apply via backpack, boom, or hose-end sprayer, or through a light irrigation or fertigation system. Maintain gentle but continuous agitation during application to keep microbes evenly suspended. Use enough water for uniform surface coverage and apply only a light 1–3 minute irrigation cycle afterward to move microbes into the thatch layer without washing them too deep into the soil.
- **Chemical Compatibility:** Avoid applying systemic herbicides or fungicides for at least 7 days before and during treatment. Contact products generally require only a 3-day buffer. If chemical applications are made within this period, reapply a follow-up Thatch Treat dose to maintain microbial activity in the thatch layer.
- Product passes easily through a 100-mesh sieve for use in standard turf sprayers and irrigation systems.

Disclaimer: Results may vary depending on environmental conditions, application rates, and management practices. The manufacturer makes no guarantee of specific results. Seller's liability is limited to replacement of product or refund of purchase price. Manufacturer is not responsible for misuse, mishandling, or application under adverse conditions beyond its control. This product is not registered for pesticidal use with the U.S. Environmental Protection Agency. It is intended as a microbial inoculant only. Keep out of reach of children.

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