

Total Turf™

Complete Moisture & Nutrient Management

What is it?

Total Turf™ is an environmentally friendly liquid copolymer containing a complete organic micro-nutrient package, special enzymes, added humectants, sulfates and proprietary additives with specific applications for turf grass, horticulture, landscaping and agriculture. Total Turf™ is a superior wetting agent, surfactant, penetrant and adjuvant containing negatively charged materials that combine to encapsulate water molecules. It performs the functions of many different products, replacing them with just one all-inclusive quality product.

What does it do?

It combines the performance of many products into 1

- Reduces watering requirements in all soil types by 20% to 30%
- Promotes biological decomposition of organic matter
- Eliminates hydrophobic soil conditions
- Increases plant survival during heat stress
- Increases roots ability to uptake nutrients and moisture
- Provides complete germination during over-seeding
- Dramatically increases water infiltration for uniform moisture availability
- Reduces surface friction for rapid soil penetration
- Prevents build up of sodium salts in root zone
- Enhances performance of all other products, especially nitrates

THE MANY BENEFITS.....

Total Turf™ encapsulates water molecules and holds water in the root zone for extended periods thereby **relieving hydrophobic soil conditions** with a single application. Total Turf™ further **reduces water/cycle application by 20+%**

Total Turf™ reduces surface friction of water allowing for **more rapid water penetration and filtration** into any soil condition and allowing the water to flow evenly throughout the soil profile. This prevents excessive moisture that causes fungi, and provides immediate relief from localized dry spots (LDS).

Total Turf™ turns brown stressed turf green in a matter of days. It holds all additives in the root zone preventing rapid leaching of those products. This reduces product application quantities making additive usage far more cost effective. **Total Turf™** has a **special affinity to nitrogen** keeping it in the root zone longer resulting in faster growing, greener grass and plants.

Total Turf™. Programmed use will keep the root zone free of salinity stress (For immediate control of salinity stress see information on the Salt Out™ product)

Total Turf™ rapidly extracts water from playing surfaces during heavy rains or irrigation **preventing puddling** and allowing for a faster return to play.

Total Turf™ contains a **complete micro-nutrient** cocktail that complements existing fertilizer programs to help plants reach their maximum potential.

Total Turf™ increases microbial activity which aids in root cell buildup and faster uptake of nutrients.

Total Turf™ reduces soil erosion from in-furrow irrigation and significantly reduces nitrogen loss in head ditch irrigation systems.

Total Turf™, when used as a soil sealant in agricultural applications, keeps moisture in the soil after seeding allowing for **faster germination of seeds and earlier emergence of the plant.**

Total Turf™ improves drip applied fumigant systems allowing for a more efficient and longer release time.

Total Turf™ lubricates all parts of pressurized water systems, preventing products in the irrigation piping from sticking to the walls, reducing drip and irrigation head clogging. This **reduces downtime, repair costs, and maintenance.**

Total Turf™ has **no known negative effects**, and is not harmful to the environment in any way.

Features of Total Turf™

AS A MOISTURE MANAGEMENT AGENT

Total Turf™ encapsulates all water molecules thereby holding the moisture in the root zone for extended periods of time before leaching away. Extended presence of moisture in the root zone relieves hydrophobic soil conditions quickly, making abundant moisture continually available for root access. **Total Turf™** significantly reduces watering requirements per cycle of irrigation and still maintains ample moisture for good plant health and growth. Due to its infiltration properties excessive moisture also flows through the soil thereby avoiding conditions that promote fungal growth. It also provides proper wetting and drainage in non soil media and eliminates water repellency in potting mixes utilizing bark and peat. In container plants, it evenly distributes applied water throughout and prevents surface drying. It will improve plant survival during heat stress conditions and **greatly enhance over-seeding, grown-in and sod installation**. It also acts as an adjuvant for immediate foliar absorption

AS A SOIL SURFACTANT & PENETRANT

Total Turf™ provides uniform water infiltration and penetration throughout the soil profile for easy access to the root zone. By encapsulating the water molecule, it significantly decreases surface friction allowing for easy and rapid water penetration and uniform infiltration into any soil condition; compacted or otherwise. Localized dry spots and turf stress are immediately eliminated on hills, slopes and large open areas. Water now will flow evenly throughout the soil profile without retaining excessive moisture that causes fungi.

INCREASED UPTAKE OF NUTRIENTS

Total Turf™. Increases availability of valuable and necessary micro-nutrients using special enzymes to penetrate plant tissues and cells. It quickly eliminates stress conditions and turns brown grass "green" in a matter of days.

For sports fields and golf courses, it readily extracts water from playing surfaces during heavy rains or irrigation, preventing puddling and allowing for a faster return to play.

AS A WETTING AGENT

Total Turf™ enhances flow patterns throughout the soil profile and improves the efficacy of all applied additives (pesticides, insecticides, nutrients, etc). This prevents rapid leaching of additives, increasing product effectiveness and reducing over all application quantities.

Holding organo-phosphates in the soil reduces the leaching of these toxins which significantly improves performance. **Total Turf™** has a special affinity to nitrogen thereby reducing nitrate leaching which protects against groundwater contamination. Also, retaining the nitrates in the root zone longer results in faster growing, greener grass and plants.

General Application: 2 - 4 gallons per acre; 6-12 oz per 1000 sq ft for rapid relief from drought or heat stress. 4-6 oz per 1000 sq ft every 2-4 weeks for maintenance. May be applied by hose end sprayer, drip irrigation, overhead and pivot sprinklers, fertigation systems and boom or tank sprayers. For trees injector irrigate at a rate of 3 oz per inch of root ball in planting and 6 oz per inch of tree diameter. Tank mix at 30:1 water to **Total Turf™**. Light watering is recommended after every application then resume normal watering procedures. Watering amount may be reduced by 20+% after plant recovery. Do not apply directly on flowering plants as it will cause browning of the petals. Apply at the base of established plants.

IMPORTANT NOTE: **Total Turf™** is heavier than water and does not dissolve but rather encapsulates water molecules and therefore **must be thoroughly agitated prior to application**. Once in suspension, it will remain in suspension permanently. Lightly irrigate immediately after application to give product access to the root zone and to prevent crystallization.

Active Ingredients: Liquid polyacrylamide copolymer (1% by volume), complete micro-nutrient package, humectants, special enzymes - 50% by weight.

Inert Ingredients: 50% by weight.

Precautionary Statements: Non hazardous to humans, animals or fish. No known environmental hazards. No protective clothing is required, however, gloves & eye protection is recommended when handling or spraying.

US & International Patents Pending

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