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Technical Data and Information Product Sheet

PRO SPORTSFIELD EXTREME™ High Performance Turfgrass Mixture

DESCRIPTION

Extreme drought tolerance coupled with extreme wear tolerance. High density bermuda coupled with kikuyu has been a proven combination on high use sportsfields throughout Southern California. The combination of grasses with rhizomes and stolons with quick growth and drought tolerance produces a turf that meets the demand for high use fields. This mixture is a TWCA qualified product which means that these grasses have successfully met a stringent set of criteria that have been documented and have proven water conservation benefits. Since this mixture is composed of entirely warm season grasses it should only be seeded during warmer months.

CHARACTERISTICS

Features	Benefits
Superior heat and drought tolerance	Meets water conservation goals
Stoloniferous and rhizomatous growth habit	Outstanding wear tolerance and recovery
Excellent, warm weather seedling vigor	Fast establishment

USES

Pro Sportsfield Extreme is a natural for high traffic areas such as:

* Sportsfields
* Playgrounds
*Parks
*Lawns
*Dog Parks

SEEDING RATES

New turf: 3 pounds per 1,000 square feet or 130 pounds per acre.
Overseeding existing turf: 1 to 2 pounds per 1,000 square feet or 43 to 86 pounds per acre.

ESTABLISHMENT

Warm season grasses such as bermuda and kikuyu should only be seeded when daytime temperatures are consistently 80 degrees or greater (generally between the months of April and October) Emergence can be anywhere between 7 and 21 days. The higher the soil temperature, the quicker the germination as long as there is adequate moisture (irrigation). First mowing approximately 21 days after emergence.

SPECIFICATIONS

PRO SPORTSFIELD EXTREME™

60% Princess 77 Hybrid Bermudagrass
40% Whittet Kikuyugrass

98% Minimum purity
90% Minimum germination
230,000 seeds per pound
Origin: Arizona/Australia

Princess 77 is protected under the U.S. Plant Variety Protection Act .

STOVER SEED®

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CULTURAL INFORMATION

Water Requirements

Frequent, light watering is necessary for seed to germinate and become established. The grasses in this mixture are warm season grasses. Once the grass becomes established it has the ability to withstand summer drought conditions under reduced irrigation schedules. For turf managers that use irrigation systems and calculations, Bermuda and kikuyu grasses can be irrigated at 60% of average ET_0 (Reference Evapotranspiration) rates to achieve optimum turf quality. Because of the ability of warm season grasses to establish roots at a depth of 3 feet or more it is able to draw water from a larger soil profile which enhances its drought tolerance. ***As a result, once these grasses become established (2-3 months in warm weather) it can withstand irrigation schedules at 40% of ET_0 (a reduction of 25%) and still produce acceptable turf.*** Specific information on Turfgrass irrigation schedules and ET rates can be found at http://ucanr.edu/sites/UrbanHort/ and at http://ag.arizona.edu/pubs/water/az1195.pdf and http://anrcatalog.ucdavis.edu/pdf/8395.pdf General irrigation guidelines dictate that turf should be watered in early morning hours and that about 3/4 of an inch of water should be applied but not to the point of runoff.

Climate Conditions

Warm season grasses are suitable to most southwestern climates except high elevations. Growth is greatest during warm months with some dormancy in winter months. Kikuyugrass is does not go dormant in coastal climates.

Soil Conditions

Bermuda and kikuyu will tolerate a wide range of soils from heavy clay to sandy loam. They tolerate both acid and alkaline conditions and are salt tolerant. Good drainage is important for root development.

Fertilization

Use of a starter fertilizer when seeding is highly recommended. After establishment fertilize during periods of active growth in warm months with a balanced fertilizer. Avoid using products with a high nitrogen (N) content as such use increases water use. Application rates should be between 0.5 and 1 pound of nitrogen (N) per 1,000 square feet per month during the growing season.

Mowing

Ideal mowing height for sportsfields is between .5 and 1 inch.

TWCA

Pro Sportsfield Extreme is an "TWCA" qualified product that has been bred and tested to withstand longer periods of drought stress. The testing involves the establishment of the turf grass under optimal conditions allowing the full expression of above-ground and below ground growth and then impose a long term water deficit stress. During the development of drought stress, turf grass plots are monitored for their ability to maintain green cover under protracted drought stress, a process which Identifies those cultivars with either low water use or extensive root systems. Cultivars or selections that maintain green cover for longer periods can reduce overall water needs.

Drought tests are conducted by the Turf Grass Water Conservation Alliance (TWCA). This non-profit organization has established a science-based method for qualifying cultivars for drought tolerance and other characteristics related to water conservation of grass seeds at low cost.

Studies are conducted in approved structures that restrict natural rainfall on the plot area during the drought stress period. The entries are replicated four times in a randomized complete block design. Planting rates for each species reflect industry standards. Following establishment, each species is maintained appropriately and fertilized according to standard practices. Plots are maintained for a single growing season prior to initiating drought stress. Drought stress is replicated for two years in one location, or one year at multiple locations. The response of entries to drought stress is evaluated two times weekly using digital image analysis techniques to quantify the percent of green turf cover for each plot as drought becomes more severe. When all plots fall below a 25% green turf cover, the experimental area is saturated to initiate drought recovery. Thereafter, the experimental area is irrigated weekly and recovery of entries from drought evaluated weekly using digital image analysis until plots reach 100% green cover.

HELPFUL LINKS

Stover Seed: www.stoverseed.com

Turfgrass Water Conservation Alliance: www.tgwca.org

University of California: https://anrcatalog.ucdavis.edu/pdf/8395.pdf

National Turfgrass Evaluation Program (NTEP): www.ntep.org