STOVER SEED®

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Technical Data and Information Product Sheet

ROYAL TXD Turf-Type Improved Bermudagrass Blend

DESCRIPTION

ROYAL TXD bermudagrass with **X**-treme **D**ensity is a blend of superior bermudagrass cultivars selected for fast germination and establishment with excellent turf quality. This high performance blend combines Yukon and Mirage 2, cultivars with high turf quality and exceptional cold tolerance, with Royal Bengal that establishes quickly and recovers quickly from wear. These cultivars perform well under a variety of environmental conditions. **Bermudagrass is classified as "California Friendly" by California Water Agencies and recommended for use in landscapes as a low water user.**

CHARACTERISTICS

Features	Benefits
Superior heat and drought tolerance	Meets water conservation goals
Improved turf density	Outstanding wear tolerance and recovery
Excellent, warm weather seedling vigor	Fast establishment
Medium texture	Uniform growth habit
Improved salt tolerance	Tolerates reclaimed water
High cold tolerance	Increased fall color retention
Reduced height of growth	Less prone to scalping injury

USES

ROYAL TXD can be grown successfully as turf on:

* Golf Courses	*Parks	*Sportsfields
* Playgrounds	*Lawns	*Commercial Developments

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 bermudagrass should be seeded when daytime temperatures are consistently 80 degrees or greater (generally between the months of April and October). Germination is delayed if soil temperatures are below 65 degrees F. Emergence can be anywhere between 14 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

ROYAL TXD BERMUDAGRASS SEED BLEND	
60% Royal Bengal Bermudagrass (coated)	49% Minimum purity
20% Yukon Bermudagrass (coated)	50% Coating material
20% Mirage 2 Bermudagrass (coated)	80% Minimum germination

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CULTURAL INFORMATION

Water Requirements

Frequent, light watering is necessary for seed to germinate and become established. Bermudagrass is a warm season grass. 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, Bermudagrass 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 bermudagrass becomes 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

Bermudagrass is classified as a warm season grass best suited to southern climates. Growth is greatest during warm months with some dormancy in winter months. **ROYAL TXD exhibits better cold tolerance over other bermudagrass cultivars.**

Soil Conditions

Bermudagrass will tolerate a wide range of soils from heavy clay to sandy loam. Ideal pH range is 6.0 to 7.5. 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 1 and 2 pounds of nitrogen (N) per 1,000 square feet per year during the growing season. Slow release fertilizers are best.

Mowing

No special mower is needed for this premium bermudagrass product. Results are best when blades are kept sharp. Recommended mowing height is from 1/2 inch to 1 1/2 inches. Do not mow more than 1/3 of the leaf blade whenever mowing turf.

Drought Tolerance Comparisons of Commonly Grown Grasses in California

Source: University of California, ANR Publication 8395 "Managing Turfgrasses During Drought" 2009

Relative Ranking	Cool-season turfgrasses	Warm-season turfgrasses
Superior		**Bermudagrass** Buffalograss
Excellent		Seashore paspalum Zoysiagrass
Good		St. Augustinegrass Kikuyugrass
Medium	Tall Fescue	
Fair	Perennial Ryegrass Kentucky Bluegrass Creeping Bentgrass Hard Fescue Chewings Fescue Red Fescue	

TEST DATA

National Turfgrass Evaluation Program, 2014 Bermudagrass Test Data of <u>Seeded</u> Cultivars at Riverside California

Turfgrass Ratings 1-9; 9=Ideal Turf

Variety	*Score*	*Variety*	*Score*
Yukon	**5.4**	North Shore SLT	4.8
Riviera	5.0	Numex-Sahara	4.1

LSD Value 0.9

First and last varieties in test listed.

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