

KINGDOM™

Creeping Bentgrass



Dark Green Color



Reduced Irrigation



Disease Tolerance

Kingdom creeping bentgrass is a new generation bentgrass with aggressive lateral growth and less top growth, allowing it to spread without growing tall. Kingdom continues the tradition of T-1 as a high quality, yet lower maintenance bentgrass that performs beautifully whether planted on moderate-budget or high-end golf courses.

Developed over a period of more than 10 years, Kingdom's parentage includes selections of T-1 creeping bentgrass combined with germplasm collections from historic golf course putting greens throughout the United States. The breeding lines used to create Kingdom were screened using Jacklin's "spot plot" *Poa annua* putting green for aggressiveness against *Poa*. Kingdom combines the world-renowned color of T-1 with great drought and traffic tolerance.

Key features

- Good performance under reduced irrigation
- Dark genetic color offers nice contrast on greens
- Excellent choice for greens, fairways, or tees

**DARK
GENETIC
COLOR**

Maintenance

Seeding Rate: 1-2lbs./M*
Interseeding 2lbs./M*

*M=1,000 square feet



Technical Information

Applications

Kingdom is suited for greens, tees, approaches, and fairways. It thrives across the cool, temperate regions of the world, and it is adapted well into the transition zone between warm and cool-season areas.

Establishment

General establishment tips are offered here, but for more in-depth establishment and maintenance tips please see our "*Bentgrass Management Guide*."

Bentgrass seed germinates most readily when soil temperatures are warm (above 60°F/15°C). If seeded in very warm conditions (above 80°F / 27°C air temp), bentgrass will germinate quickly but may need protection from damping-off fungi.

- Seed can be coated with fungicide to provide protection before emergence.
- In most cases an over-the-top application of fungicide after emergence will be sufficient.
- Warm soil temperatures offer the best time to plant if *Poa annua* seed is present in the soil. *Poa annua* rarely germinates above 80°F / 27°C, hence giving the competitive edge toward bent establishment.
- Bentgrass can be sown in the cooler months of the year but seed may require 30 days or more to emerge in cold weather. During this interval the surface is vulnerable to erosion.
 - Example: Seed planted in early August might produce a putting green that's ready for play by June of the next year. However, a green not planted until late September (in Northern areas) may require a full year until it's ready to open for play.
 - In semi-tropical areas, spring plantings may be problematic in trying to nurse immature seedlings through the summer. This feat can be accomplished but requires skill in irrigation and fungicides. Spring planting may also prolong the time until the grass is ready to play.

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 **BARENBRUG®**

KINGDOM™

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Establishment (cont.)

Establishment fertility - Corrective (basic) fertilizer:

- Do a lab soil test before seeding so that results are in hand prior to establishment day.
- Correct deficiencies in P, K, Mg, and pH via fertilizer amendments as noted on the lab report.
- Do not try to correct N, or Ca in most cases, or pH's above 8.5.

Starter Fertilizer

- Apply a balanced starter with a 1-1-1 ratio of N, P₂O₅, and K₂O (example: 10-10-10 or 16-16-16). Apply just before, at, or within 1 week after seeding.
- Apply at 0.75 to 1.5 lbs. of actual nitrogen (N) per 1000 ft² (3.8 to 7.5 g N/ m²). With a 16-16-16 product, this would equate to a rate of 200 to 400 lbs. of fertilizer product per acre. If a farm-grade fertilizer is used, apply only the lower rates to avoid burn.

Mowing

- The first mow should occur as soon as the surface is physically capable of supporting the weight of a mower without damage. Never let the stand grow to 1 inch (25 mm) tall before mowing.
- First mowing should be done when there is uniform turf coverage and the plants reach:
 - 0.25 to 0.38 inch (6 to 10 mm) for greens
 - 0.38 to 0.5 inch (10 to 12 mm) for tees
 - 0.6 to 0.75 inch (16 to 19 mm) for fairways

