



Key points

- Strong seedling vigor
- Aggressive growth and good wear tolerance
- Medium dark green colour
- Good Dollar Spot resistance

Characteristics and areas of use

Penncross competes with *Poa annua* on putting greens, tees, and fairways. Results of turf performance tests show that Penncross has wide adaptability, tight, upright growth characteristics and fine leaf texture. It is best suited for use on golf courses (fairways, tees and greens) and winter overseeding of Bermuda grass greens.

Breeding history

Penncross was bred by Dr. Joe Duich of Pennsylvania State University. Penncross breeding began with 156 vegetatively propagated bentgrasses later reduced to 21. These were crossed for turf performance and the components were tested under a wide variety of locations in the U.S. and Canada.

Sowing rate

Sow the seed to make good seed to soil contact and keep seedlings moist until well rooted. Germination will take place in 7 - 15 days depending on soil temperatures, and the first mowing may be expected within 30 days, or when the plants have sufficiently rooted. Mow at a 20 mm height of cut or lower until turf is established. Penncross performs best in soils with a pH of 5.5 to 8. It has a moderate nitrogen requirement, with 0.45 kg of actual N/100m² per year being adequate in most situations. Optimum greens mowing height for Penncross is 4.8 – 7.9 mm but can be adjusted higher or lower depending upon maintenance practices and intended use. Penncross performs best on sandy soils and tolerates clay soils with adequate drainage. Bentgrasses do not perform well in wet areas; however, Penncross can tolerate saturated soil conditions for short periods of time. For new turf applications sow at 0.5 – 1 kg/100m² and for overseeding of existing turf between 0.25 – 0.5 kg/100m².

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