

GUIDE SPECIFICATION FOR PERMANENT SEEDING

Section 02920

PERMANENT HIGH QUALITY BERMUDA SEEDING

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a hybrid bermuda seed variety for permanent high quality turf situations.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions. Include required substrate preparation, list of materials, and application rate.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and products in factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from weather damage, excessive temperatures, and construction operations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. PENNINGTON SEED INC. SEEDS WEST – 1280 ATLANTA HWY – MADISON, GA 30650, 800-286-6100 (Fax706-342-8071)

2.02 MATERIALS

- A. Hybrid bermuda seed: Princess 77 hybrid bermuda seed by Pennington Seed, Inc applied at 44lbs per acre (11bs/1000 square feet) with the following characteristics.
 1. Material: Permanent seed variety.
 2. Seed: Must be Certified Princess 77.
 3. Inert Material: Less than 1%.
 4. Other Crop Seed: Less than .5%.
 5. Weed Seed: Less than 1%.
 6. Coating: MYCO Advantage coated.
 7. Packaging: 25lb Plastic container.

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- B. Lime: Agricultural or Pelletized Lime applied at specified rate according to soil analysis or 2000lbs per acre (46lbs/1000 square feet) if no soil analysis is performed.
- C. Fertilizer: Commercial Grade 19-19-19 applied at 250lbs per acre (5.8lbs/1000 square feet).
- D. Liquid or Dry Lime: Liquid lime applied at a rate of 2.5 gallons per acre or Neutra Lime Dry applied at a rate of 80lbs per acre in areas of acidic soils to assure germination and initial establishment.

PART 3 EXECUTION

3.01 SUBSTRATE PREPARATION

- A. Examine substrates and conditions where material will be applied. Do not proceed with installation until unsatisfactory conditions are corrected.
- B. A soil analysis should be performed to assess the fertility needs and pH of the soil. All installation areas should be prepared to agricultural standard recommended by the Department of Agricultural within the state where the work is being performed. Agricultural Lime or pelletized lime should be added during the ground preparation stage at the rate recommended according to soil analysis. Apply agricultural lime or pellet lime at a rate of 2000lbs per acre if no soil analysis has been performed.
- C. All weeds and undesirable plants should be removed before planting by method of spraying or tillage. A non-selective herbicide can be sprayed prior to planting to kill all weeds and undesirable plants that may compete with the new seedlings. Spraying can be performed at least 4 weeks prior to planting and again 2 weeks after the initial tillage. The tillage procedure can be advantageous if large amounts of organic debris are present on the installation areas.
- D. The grade should always be examined before planting to make sure surface drainage is directed away from structures and sloped correctly. A grade of 1-1.75% is usually sufficient for surface drainage.
- E. Areas to be planted should be rolled with a culti-packer, turf roller, or similar device to firm the seedbed. This process helps achieve the desired firmness and will shatter soil clods. Soil should be firmed to 85% of compaction or until walking across the seedbed leaves a footprint of ¼” or less. If soil clods still exist after rolling, additional tillage may be necessary.
- F. Examine related work including irrigation and grading of surface before proceeding with any work and notify the Engineer in writing on conditions which may prevent the proper execution of this work.

3.02 INSTALLATION

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- A. Strictly comply with manufacturer's installation instructions and recommendations.
- B. Equipment used to spread seed should have sufficient capacity to hold and agitate seed evenly in a cyclone or drop pattern.
- B. Apply Princess 77 hybrid seed at a rate of 44lbs per acre (1lbs/1000 square feet). Seed may need to be applied at a half rate in alternating directions to ensure an even coverage of seed.
- C. Liquid Lime or Neutra Lime Dry should be topically applied to areas with acidic soils to assist the seed germination and vegetation growth during the first 90 days. Liquid Lime should be applied at a rate of 2.5 gallons per acre or Neutra Lime Dry at a rate of 80lbs per acre.
- D. Fertilizer should be spread evenly over the seeded areas at the recommended rate determined by the initial soil analysis. If no soil analysis is available evenly apply 19-19-19 fertilizer at a rate of 250lbs per acre (5.8lbs/1000 square feet).
- C. Seed and other amendments can be settled into the soil by running a light cultipacker over the application area. The Princess 77 seed does not need to be settled into the soil any deeper than 1/16".
- D. A hydraulically applied or rolled erosion control product can be applied over the top of seed in steep slope situations to help prevent seed from washing and reinforce vegetation through establishment. (Follow product manufacturer recommendations.)

3.03 MAINTENANCE

- A. Frequent light irrigation will need to be applied to seeded areas if no natural rain events have occurred within 2 weeks of seeding. After seed germination has occurred and plants are visible the frequency of irrigation should be cut back with heavier application rates.
- B. Repair all seed washings and erosion.
- C. Future fertilization should occur whenever applicable at the recommended rate based on soil analysis.

3.04 CLEANING AND PROTECTION

- A. Wash hands after seeding to remove all seed treatment or chemical residue that could be remaining.
- B. Advise owner or engineer of methods for protection of seeded areas.

END OF SECTION

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