

GUIDE SPECIFICATION FOR PERMANENT SEEDING

PERMANENT SEEDING

PART 1 GENERAL

1.01 SUMMARY

- A. This specification calls for the application of **aquaMAXX™** seed mix. A Turf Type Tall Fescue blend that has been pretreated with a combination of humic acids, fulvic acids, proteins, growth inhibitors, surfactants, nitrogen, phosphorous, potassium, phosphoric acid, kelp extracts, amino acids and other biological stimulants that promote seed germination and root growth.

1.02 SUBMITALS

- A. Product Data: Parties applying **aquaMAXX™** must submit the manufacturer's data and installation instructions. Include required substrate preparation, list of materials, and application rate.

1.03 DELIVERY, STORAGE AND HANDLING

- A. **aquaMAXX™** and all specified preparation products must be delivered and maintained in factory labeled packages. Store and handle **aquaMAXX™** in strict compliance with manufacturer's instructions and recommendations. Protect **aquaMAXX™** from weather damage, excessive temperatures and a storage environment that is or may become impacted by moisture.

PART 2 PRODUCTS

2.01 EXCLUSIVE MANUFACTURER

- A. LANDSCAPE SUPPLY, INC.
101 MADISON AVE., NW ROANOKE, VA 24016, 800-876-2151
(Fax: 540-343-1484)

2.02 MATERIALS:

- A. **aquaMAXX™** is a mixed sustainable seed specified for conditions requiring erosion and sediment control. This seed mixture is labeled as **aquaMAXX™** by Environmental Construction Solutions, Inc. and is represented by the following characteristics.
1. Material: Turf Type Tall Fescue blend containing 3 seed varieties.
 2. Seed must contain 66% A-List® Approved Turf Type Tall Fescue Varieties. The blended mixture must be Blue Tag Certified.
 3. Inert Material: Less than 1%.
 4. Other Crop Seed: Less than .5%
 5. Weed Seed: Less than 1%
 6. Seed Treatment: Inoculated with groSMART Seed Treatment including a proprietary mixture of Prudent 44, Nutrol, KaPre Remed8, Krystal Klear Turf Mix and Kapre Embella)
 7. Packaging: 50 lb.

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2.02 MATERIALS (continued)

- B. Lime: Pelletized lime should be applied at specified rate according to soil analysis or 2,000 lbs, per acre (46 lbs./1,000 square feet) if no soil analysis is performed.
- C. Fertilizer (Option 1): Fertilizer should be applied at specified rate according to soil analysis or Commercial Grade 14-20-14 30% CRN (Controlled Release Nitrogen) applied at 150 lbs. per acre (3.44 lbs./1,000 square feet) if no soil analysis is performed.
- D. Fertilizer (Options 2): Fertilizer should be applied at specified rate according to soil analysis or Commercial Grade EarthWorks (Replenish) 5-4-5 (Carbon based Fertility) applied at 200 lbs. per acre (4.6 lbs. / 1000 square feet) if no soil analysis is performed.

PART 3 EXECUTION

3.01 SUBSTRATE PREPARATION

- A. Substrates and conditions must be thoroughly assessed where **aquaMAXX™** and all preparatory 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 Agriculture within the state where the work is being performed. Pelletized lime should be added during the ground preparation stage at the recommended rate from the soil analysis. Apply pelletized lime at a rate of 2000 pounds per acre if no soil analysis was 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 1/4" 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.

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3.02 INSTALLATION

- A. Strictly comply with manufacturer's installation instructions and recommendations.
- B. Equipment used to spread **aquaMAXX™** should have sufficient capacity to hold and agitate the seed mix evenly in a cyclone or drop pattern.
- C. Apply **aquaMAXX™** seed mixture at a minimum of 275 lbs. per acre (6.3 lbs./1,000 square feet).
- D. Liquid Lime or Neutra Lime Dry should be topically applied to areas with acidic soils to assist the seed germination and vegetation growth.
- H. Specified fertilizer or commercial grade 14-20-14 (30% SRN) fertilizer should be spread evenly over the seeded areas at a rate of 250 lbs. per acre (5.8 lbs./1,000 square feet).
- I. Seed and other amendments should be settled into the seedbed by a method of culti-packing or covered with soil at a depth not to exceed 1/8 inch.
- J. A rolled or hydraulically applied erosion control product can be applied over the top of seed to help prevent seed from washing and reinforce vegetation during the period of establishment. (Follow product manufacturer recommendations for proper establishment methods.)

3.03 MAINTENANCE

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

3.04 CLEANING AND PROTECTION

- A. Wash hands after seeding to remove all seed treatment or chemical residue that may remain after application.
- B. Advise the general contractor, owner or engineer of methods for protection of seeded areas.

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