

SECTION 02927

BIO-STIMULANT SOIL CONDITIONER

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies a spray-applied bio-stimulant for improved turf establishment during high stress conditions, such as heat, cold, drought and salt while [hydro-seeding.] [mulch binding.] [hay and straw seeding.]
- B. Related Sections: Other Specification Sections which directly relate to the work of this Section include, but are not limited to, the following:
 - 1. Section 01570 - Temporary Erosion and Sediment Control.
 - 2. Section 02300 - Earthwork; establishment of subgrade
 - 3. Section 02370 - Erosion and Sedimentation Control.
 - 4. Section 02920 - Lawns and Grasses.

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 damage from weather, excessive temperatures, and construction operations.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURER

- A. PROFILE Products LLC, 750 Lake Cook Road – Suite 440, Buffalo Grove, IL 60089, 800-654-8793 (Fax 847-215-0577)

2.02 MATERIALS

- A. Soil Bio-Stimulant: PROFILE BioPrime by PROFILE Products LLC with the following characteristics:
 - 1. Materials: Cold water processed ascophyllum nodosum (seaweed extract), Humic Acid, Nitamin Nitrogen source and Endo-mycorrhizal spores
 - 2. Packaging: 40 pound bags, shipped 50 per 48 x 48 pallet.

PART 3 EXECUTION

3.01 SUBSTRATE PREPARATION

- A. Examine substrates and conditions where materials will be applied. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 INSTALLATION

GUIDE SPECIFICATIONS FOR PROFILE BIOPRIME

A. Strictly comply with manufacturer's installation instructions and recommendations. Use approved hydro-spraying machines to apply growth stimulant. Install materials at the following application rates based on Soil test Paste Extract data in the chart:

1. Hydro-Seeding: turf establishment, 40 to 160 pounds BioPrime per acre
2. Hay and Straw Seeding: 40 to 160 pounds BioPrime per acre application of seed, fertilizer and lime when applied with a hydro-seeding machine.

EC¹	TDS² ppm	SAR³	CEC% Sodium⁴	OM⁵	OA⁶	BioPrime
< .75	< 480	< 3	< 4%	> 2%	> 2.5%	40 lb/ac
.75 – 1.5	480 – 960	3 – 4	4 – 6%	1.5 – 2	1.7 – 2.5%	80 lb/ac
1.6 – 3.0	1024 – 1920	4 – 5	6 – 7%	.75 – 1.4	1 – 1.6	120 lb/ac
> 3.1	> 1984	5 - 6	7 – 9%	< .75	< 1	160 lb/ac

3.03 CLEANING AND PROTECTION

A. Clean spills promptly. Advise Owner of methods for protection of sprayed areas.

END OF SECTION

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