JumpStart™

JumpStart gives you a jump start on growth.

JumpStart™ is a proprietary liquid formulation containing a soil penetration agent, humic acid and over 200 species of beneficial soil bacteria to:

- Improve moisture infiltration and retention for faster, more complete germination and uniform stands of vegetation
- Promote faster nutrient uptake and conversion to get plants off to a faster, stronger start
- Provide a hormonal plant response to maximize root development and plant stress tolerance
- Reduce soil compaction and salinity for deeper root penetration
- Reduce nutrient leaching and runoff to ensure more complete environmental stewardship

JumpStart speeds germination and growth

An independent trial utilizing the ASTM D7322 test method for Growth Establishment documented a synergistic effect of JumpStart in getting grass off to a fast start. Compared to the control area after 14 to 21 days, the seeded area with JumpStart experienced:

- 275% more seed germination
- 281% greater plant height
- 115% greater plant mass

### Typical Application Rates for ProPlus® JumpStart™

<table>
<thead>
<tr>
<th>EC¹</th>
<th>TDS² ppm</th>
<th>SAR³</th>
<th>CEC% Sodium⁴</th>
<th>%OM⁵</th>
<th>%OA⁶</th>
<th>JumpStart™</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0.75</td>
<td>&lt; 480</td>
<td>&lt; 3.0</td>
<td>&lt; 4.0</td>
<td>&gt; 2.0</td>
<td>&gt; 2.5</td>
<td>1.25 gal/ac (11.71 L/ha)</td>
</tr>
<tr>
<td>0.75 – 1.5</td>
<td>480 – 960</td>
<td>3.0 – 4.0</td>
<td>4.0 – 6.0</td>
<td>1.5 – 2.0</td>
<td>1.7 – 2.5</td>
<td>2.5 gal/ac (23.42 L/ha)</td>
</tr>
<tr>
<td>1.6 – 3.0</td>
<td>1024 – 1920</td>
<td>4.0 – 5.0</td>
<td>6.0 – 7.0</td>
<td>0.75 – 1.4</td>
<td>1.0 – 1.6</td>
<td>3.75 gal/ac (35.13 L/ha)</td>
</tr>
<tr>
<td>&gt; 3.1</td>
<td>&gt; 1984</td>
<td>5.0 – 6.0</td>
<td>7.0 – 9.0</td>
<td>&lt; 0.75</td>
<td>&lt; 1.0</td>
<td>5.0 gal/ac (46.85 L/ha)</td>
</tr>
</tbody>
</table>

¹ Electrical Conductivity ² Total Dissolved Solids ³ Sodium Absorption Ratio
⁴ Sodium as % Base Saturation CEC (Cation Exchange Capacity) ⁵ Organic Matter ⁶ Organic Acids

### Amendment Ingredients

- Polyhydroxy Alkyl Alkylene Oxides
- Humic Acid (derived from Leonardite)
- Microorganisms

### Inert Ingredients

- Water Based Culture Medium

For technical information or distribution, please call 800-508-8681.
For customer service, call 800-366-1180.
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