

Microbial inoculant for dry fertilizer impregnation

OVERVIEW

PowerCoat® is a microbial inoculant containing bioactives of PGPR – Plant Growth Promoting Rhizobacteria – that optimizes nutrient utilization and promotes root and crop growth, helping growers maximize ROI from production inputs. It is formulated to impregnate bulk dry fertilizer and can be applied banded or broadcast.

FEATURES & BENEFITS

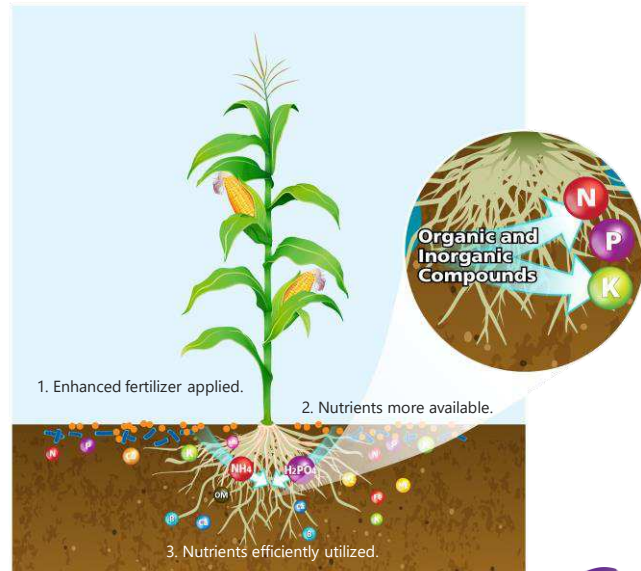
### Benefits of Using PowerCoat® in Crop Production:

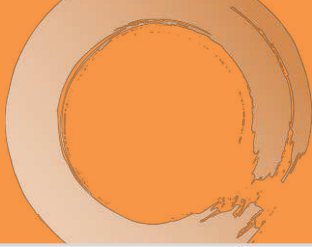
- Improved nutrient use efficiency – solubilization, uptake and utilization of applied fertilizer and nutrients in the soil bank
- Ease of application – effective rate of bacterial spores on impregnated fertilizer provide consistent performance
- Enhanced root growth and plant vigor via production of growth promoting metabolites
- Optimized yield potential and improved harvest quality

TECHNOLOGY AT WORK

### How PowerCoat Technology Works:

1. PowerCoat enhanced fertilizer applied to crops at key growth stages.
2. The bioactives in PowerCoat – *Bacillus spp.* – produce enzymes and organic acids that improve the solubilization of fertilizer into plant available forms, and release bound nutrients.
3. These bioactives also produce growth metabolites that promote a more robust root system, improving nutrient and water uptake which optimizes crop growth and yield potential.





## Product Profile

Mode of Action	<ul style="list-style-type: none"> <li>Nutrient solubilization and cycling improving nutrient availability – macronutrients and micronutrients.</li> <li>Root growth promotion – improved production of root hairs and root tips for increased water and nutrient uptake.</li> </ul>
Fertilizer Compatibility	<ul style="list-style-type: none"> <li>Effective on a wide range of raw nutrients, biosolids and dry fertilizer blends. Contact a Pathway representative for a complete list of compatible fertilizers.</li> </ul>
Active Ingredients – Proprietary PGPR strains	<ul style="list-style-type: none"> <li>Bacillus subtilis (1 x 10<sup>8</sup> cfu/mL)</li> <li>Bacillus methylotrophicus (1 x 10<sup>8</sup> cfu/mL)</li> <li>Bacillus licheniformis (1 x 10<sup>6</sup> cfu/mL)</li> <li>Bacillus megaterium (1 x 10<sup>8</sup> cfu/mL)</li> <li>Bacillus amyloliquefaciens (1 x 10<sup>8</sup> cfu/mL)</li> </ul>
Formulation	<ul style="list-style-type: none"> <li>Oil based</li> </ul>
Packaging	<ul style="list-style-type: none"> <li>2 x 2.5 gal case, 275 gal tote</li> </ul>
Shelf life	<ul style="list-style-type: none"> <li>24 months from date of manufacture</li> </ul>

## Application

Impregnation Rate per ton (2000 lbs)	85 oz (5.3 lbs)
Fertilizer Application	<ul style="list-style-type: none"> <li>Apply PowerCoat impregnated fertilizer during the normal fertilizer schedule. PowerCoat can be banded or broadcast. If broadcast, a 100% overlap is recommended; non-uniform spreading may result in unsatisfactory performance.</li> </ul>