

# roots® BioPam™

**ROOTS® BioPam™** is a combination tackifier/inoculant used for effective hydroseeding. It contains a polyacrylamide tackifier to bind together the various components of the hydromulch, improve water penetration, and slow erosion of the hydromulch. ROOTS® BioPam™ also contains ROOTS® BioPak®, a dry soluble inoculant containing beneficial rhizosphere bacteria which improve soil fertility by fixing nitrogen, solubilizing phosphorus, and degrading organic matter.

#### DIRECTIONS FOR USE:

**Hydroseeding:** ROOTS® BioPam™ is applied at varying rates depending on the area to be covered, the steepness of the slope, and the desired viscosity (thickness) of the mix. The basic application rate for flat ground is 8.5-Lbs per acre (3.5 oz per 1,000 sq. ft.). This increases with the slope, as shown in the following table. Machine loading procedures may vary. Agitate to mix thoroughly.

Application for hydroseeding

Slope	Flat	4:1	3:1	2:1	1:1
Lbs/Acre	8.5	11.5	15	20	25
oz./1,000 ft <sup>2</sup>	3.5	4	6	7.5	9

#### HEALTH AND SAFETY:

Gloves recommended. Wash hands after handling. Avoid contact with eyes or broken skin. Avoid inhaling dust or mist. In case of ingestion, seek medical attention. In case of allergic reactions, treat symptoms and contact a physician. Persons with abnormal sensitivity to common bacteria should consult their physician before handling microbial products.

**KEEP OUT OF REACH OF CHILDREN.**

**STORAGE:** This product is stable in dry storage conditions up to 100°F.

**TECHNICAL ASSISTANCE:** For technical assistance, call 1-(717) 273-1685

#### WARRANTY

**NOTE** To the extent consistent with applicable law, Buyer assumes all responsibility for safety and performance if this product is not used according to the directions.



**Net Wt: 5 Lb (2.27-kg)**

Information regarding the levels of metals in this product is available on the internet at <http://www.regulatory-info-lebsea.com>

For technical assistance and information about our products visit [www.LebanonTurf.com](http://www.LebanonTurf.com)

Manufactured by: **Lebanon Seaboard Corporation** . 1600 E. Cumberland St. Lebanon, PA 17042 . Made in the USA . [www.LebanonTurf.com](http://www.LebanonTurf.com)  
800-233-0628 • (717) 273-1685

## Tackifier with Beneficial Bacteria for Hydromulching

- Reduces seed and mulch loss from runoff
- Introduces beneficial microbes

#### Precautionary Statements for handling

Keep out of reach of children

**Precautionary Statements for disposal** - Dispose in accordance with all federal, state and local regulations.

Persons with severely suppressed immune systems should contact their physician before handling ordinary microbial products.

#### NOT A PLANT FOOD PRODUCT CONTAINS NON PLANT FOOD INGREDIENTS

<b>Guaranteed Analysis</b>	
<b>SOIL AMENDING INGREDIENTS</b>	
<b>Rhizosphere Bacteria</b> .....	43.2 Million cfu/g
9.8 Million cfu/g <i>Bacillus licheniformis</i>	
9.8 Million cfu/g <i>Bacillus megaterium</i>	
2 Million cfu/g <i>Bacillus polymyxa</i>	
9.8 Million cfu/g <i>Bacillus subtilis</i>	
9.8 Million cfu/g <i>Bacillus pumilus</i>	
2 Million cfu/g <i>Paenibacillus azotofixans</i>	
Humic acids (derived from Leonardite) .....	12.5%
Polyacrylamide .....	58.0%
<b>MICROBIAL NUTRIENTS</b> .....	22.0%
14.0% Seaweed extract (derived from <i>Ascophyllum nodosum</i> )	
5.8% Maltodextrin	
2.2% Yeast Extract	
<b>INERT INGREDIENTS</b> .....	7.5%
5.5% Non humic acid components of Leonardite extract	
2.0% Polyethylene glycol	

Expiration Date:

Not for use on Food Crops.

**LebanonTurf**