



JH Biotech
Biotechnologies for Safer Agriculture

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PENEX[®]

Wetting Agent &
Soil Conditioner

PENEX is a soil conditioner which aids in water penetration, helps reduce runoff, promotes deeper root systems and increases water efficiency.

PENEX is specifically designed to improve soils with a history of poor water penetration. Problem areas in lawns, greens, fairways, sporting fields, agricultural fields and potting soils can be corrected by using PENEX. It is an excellent wetting agent for growing media, such as mulch, sawdust, peat moss or manure.

PENEX increases water penetration by breaking up soil particles which may have become locked together through compaction or poor soil structure. By unlocking these particles PENEX increases water penetration, reduces runoff, increases aeration, allows root systems to move down the soil profile, and allows salt to wash out.

Potatoes: Use 1-2 quarts/acre to break clods. PENEX can be used with desiccants to loosen soil for easier potato harvest.

Golf courses and athletic fields: Use 2-3 oz per 1,000 square feet.

Advantages of PENEX

- Increases Water Penetration
- Clod Buster
- Improves Drainage
- Increases Efficiency of Water Use
- Reduces Water Runoff
- Promotes Root Development



ACTIVE INGREDIENTS

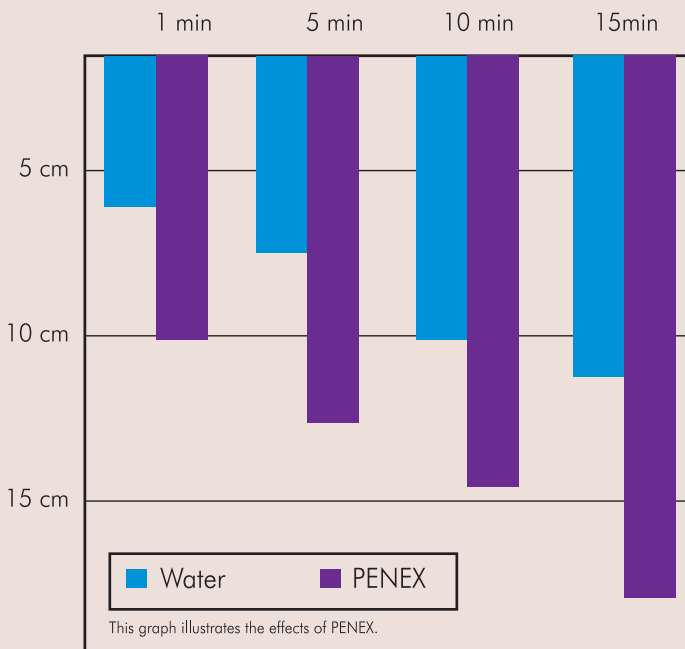
Ammonium Laureth Sulfate	15%
Amino Acid	5%

INERT INGREDIENTS 80%

TOTAL 100%



WATER PENETRATION INTO SOIL



Time	Water (cm)	PENEX (cm)	Improvement
1 min.	6.5	10.2	57%
5 min.	7.0	12.4	77%
10 min.	10.2	14.6	43%
15 min.	11.3	18.0	59%

PENEX DEMONSTRATION:

PENEX was mixed with water at the rate of 16 ounces of PENEX per 30 gallons of water per acre. Soil with a bulk density of 1.2 g/cm³ was added to a cylinder. Deionized water was used as the control. The liquid was poured into the cylinders and the rate of infiltration was measured in centimeters. Measurements were taken at 1 minute, 5 minute, 10 minute and 15 minute intervals. The PENEX treatment had greater infiltration at all four measurements.



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For labels and MSDS, visit our website at www.jhbiotech.com or call us at 805.650.8933

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