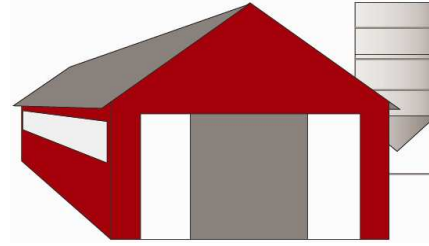


poultrySolution™

Litter Treatment & Windrow Starter



poultrySolution™ significantly reduces ammonia concentrations in poultry houses by changing the biological nature of litter. Rather than fight nature, poultrySolution™ works *with* nature to enhance microbial activity and accelerate a natural process of ammonia conversion. The beneficial microbes sequester ammonia, converting it to nitrate nitrogen by breaking the chemical bonds in ammonia, releasing harmless hydrogen into the air and sequestering nitrogen in the litter. No heavy off-gassing of ammonia occurs. poultrySolution™ is 100% natural, safe and non-toxic.

Benefits over commonly used treatment products (i.e. PLT®, LDM, Poultry Guard, etc.):

- Costs 20-40% less per sq. ft.
- One treatment per cycle—even for large bird production
- No down-time—birds can be delivered immediately after application
- Does not damage houses or equipment—not acid-based
- Ease of use—no complicated application protocols
- No risk to poultry or workers during or after application

Benefits to the integrator/grower:

- Significant reduction in ammonia levels (ppm)
- Less frequent “to the ground” cleanout needed
- Decrease in mortality throughout the growth cycle of the flock
- Improved feed conversion
- Reduction in breast and foot burning
- Decrease in disease
- Grow-out period reduced by up to one week
- Reduced need for ventilation translates to lower energy costs

RESIDUAL BENEFITS NO OTHER PRODUCT CAN OFFER: Unlike other treatments, poultrySolution™ is not “used up” once it has reacted in the litter. Think of the beneficial microbes in poultrySolution™ as little enzyme factories, producing benefits throughout the flock and afterward. The initial treatment is stronger, to get the factories in operation. Follow-up treatments re-populate the microbial community working in your litter. No other poultry litter treatment has a residual benefit like that of poultrySolution™.

COST: \$8 per gallon plus shipping and/or installation
1 gallon per 1000 sq ft recommended, applied with equal parts **non-chlorinated** water

plusMinerals, Inc.

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How does poultrySolution™ compare with other popular litter treatments?

	poultrySolution™	LDM	PLT®	Poultry Guard
Methodology	Displaces ammonia-releasing & pathogenic bacteria	Releases ammonia before flock placement	Decreases pH of litter	Decreases pH of litter
Effective time of treatment (how long it lasts)	Entire cycle	Decreases over cycle	During brooding	During brooding
Average cost per house	\$200	\$200	\$360	\$425
Average cost per 1000 sq ft	\$8	\$16	\$29	\$34
Product quantity per house	25 gallons	10 gallons	1250 lbs	1250 lbs
Total liquid applied to house during application	50 gallons	90 gallons	n/a	n/a
Percentage of house treated	100%	100%	50%	50%
House prep required (heat, ventilation)	None	Extensive	Extensive	Moderate
Time delay from application to bird placement	None	5-14 days or more	None	3 days
Precautions required for safe handling	None	None	YES	YES
Environmental impact	Beneficial	Unknown	Detrimental	Detrimental
Corrosive	No	No	YES	YES
Damaging to house and equipment	No	No	YES	YES

Application instructions to treat a standard poultry house: Following litter preparation, dilute poultrySolution™ with an equal amount of water and apply to the litter in the house using a sprayer. No special application conditions or precautions are necessary because poultrySolution™ is completely natural and non-toxic. Houses do not need to be specially heated or ventilated before, during or after treatment. However, warm conditions improve the speed and effectiveness of the microbes.

Windrow instructions: Apply to top of litter following above instructions prior to windrowing.

poultrySolution™ poses no risk to the health or well-being of poultry or humans. poultrySolution™ is a live microbial product and must be applied within 30 days for full benefit. White flakes may appear on the surface of the product and are natural due to live cultures. A filter funnel is recommended to remove any particles that might clog sprayer nozzles. Extreme temperatures can damage the microbes. Store out of direct sunlight and at temperatures between 60-85 degrees.

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