



Al+Clear[®] Poultry Grade Alum

TECHNICAL BULLETIN

Dry Combination Programs

Combination Programs Work Better Than Individual Products Alone

It was recognized early on that a combination of sulfuric acid with alum provided the best of both worlds with regard to predictable activation, along with good extended ammonia control. The first combination product on the market was **Al+Clear[®] A7** liquid, and current dry combination programs are designed to mimic the **Al+Clear[®] A7** program using commercially available dry products. The advantage of combining **Sodium Bisulfate** product or **Acidified Clay** product with **Al+Clear[®] Poultry Grade Alum** (dry) is simply that the combination allows the applicator to adjust ratios of the activation component [**Sodium Bisulfate** product or **Acidified Clay** product] in relation to the extended ammonia control component [**Al+Clear[®]**] to meet the demands of all possible litter and pad moisture conditions.

With proper ventilation, it is not uncommon to achieve good ammonia control well beyond normal brood periods. The primary objective of the combination programs is to get good early activation along with extended ammonia control, getting birds out of the brood chamber with minimal exposure to volatilized ammonia.

Al+Clear[®] Substitution into a Sodium Bisulfate Product Program

1. Maintain the same application rate as is being used with the straight **Sodium Bisulfate** product program.
2. Use a 50:50 ratio of **Al+Clear[®] Poultry Grade Alum** to **Sodium Bisulfate** product.
3. Ratios of **Al+Clear[®] Poultry Grade Alum** to **Sodium Bisulfate** product can be adjusted to accommodate different litter conditions. Generally speaking, increase the amount of **Al+Clear[®] Poultry Grade Alum** as litter moisture conditions increase.

Dry Combination Programs

4. Timing of application is the same as for **Sodium Bisulfate** product except when extremely dry litter is encountered, where application needs to be done further in advance of chick placement.

Al+Clear® Substitution into an Acidified Clay Product Program

1. Maintain the same application rate as is being used with the straight **Acidified Clay** product program.
2. Use a 50:50 ratio of **Al+Clear® Poultry Grade Alum** to **Acidified Clay** product.
3. Ratios of **Al+Clear® Poultry Grade Alum** to **Acidified Clay** product can be adjusted to accommodate different litter conditions. Generally speaking, increase the amount of **Al+Clear® Poultry Grade Alum** as litter moisture conditions increase.
4. Timing of application is the same as for **Acidified Clay** product.

Controlling ammonia at or below 25 ppm can have a significant impact on your profit, bird health and overall flock performance.



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