

Mixing AgraGel (T-400) Micro with liquid fertilizer (May 2009)

**Starter Fertilizers: determine main N-P-K ingredients and follow appropriate procedure below.
General rule of thumb: 5 gal. liquid fertilizer for each pound of AgraGel (T-400) Micro**

Notes:

- Always use AgraGel (T-400) Micro when mixing with liquid fertilizer.
- 2.5 cups of AgraGel (T-400) Micro is approximately one pound.

N-P-K BLEND PROCEDURE:

1. Take one pint of pre-mixed fertilizer and pour into a clean one-quart Bell jar.
2. To achieve a 3 lb/acre banded rate of **AgraGel (T-400) Micro** add the following quantity of **AgraGel (T-400)** as follows:
 - a. 15 gallons of fertilizer per acre...add 1.2 ounces of **AgraGel (T-400) Micro** per pint (note that 1.2 ounces of **AgraGel (T-400) Micro** is approximately 8 level teaspoons full).
 - b. 10 gallons of fertilizer per acre...add 1.8 ounces of **AgraGel (T-400) Micro** per pint (12 level teaspoons full).
3. Cap the jar, shake it and set aside. Watch it for 24 hours. Examine the mixture to see if it has segmented or has gelled excessively. If the suspension looks OK after 24 hours the mixture should be successful. If your normal practice is to let the final suspension set for longer time periods, then watch this mixture for a comparable time span. Note that it is still wise to try a batch tank prior to full scale commercial use.
4. If you are using a primary N source such as 28 or 32% liquid, please note that the **AgraGel (T-400) Micro** will hydrate somewhat, but remain “gritty”. Successful use will depend on an “open” type system with no or very few large size screens (50 mesh or larger) and nozzles (0.065 or larger).
5. If the suspension fails, **AgraGel (T-400) Micro** is not compatible.

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PHOSPHATE BLENDS PROCEDURE:

(You may wish to confer with your Terawet Ventures, Inc Technical Contact prior to initiating this test):

1. Take one pint of Phosphate based fertilizer-10-34-0 or 9-18-9, etc. and pour into a clean one-quart Bell jar.
2. To achieve a 3 lb/acre banded rate of AgraGel (T-400) Micro add the following quantity of AgraGel (T-400) Micro as follows:
 - a. 15 gallons of fertilizer per acre...add 1.2 ounces of AgraGel (T-400) Micro per pint (note that 1.2 ounces of AgraGel (T-400) Micro is approximately 8 level teaspoons full).
 - b. 10 gallons of fertilizer per acre...add 1.8 ounces of AgraGel (T-400) Micro per pint (12 level teaspoons full).
3. If successful, go to a batch tank.
4. Mix in the appropriate amount of AgraGel (T-400) Micro in batch tank. Let set up for 1 hr to partially swell, but not hydrate. This measure will prevent the AgraGel (T-400) Micro from hydrating too fast. Add water, 28% or 32%, micronutrients, soluble K and other products as appropriate.
5. AGITATE, AGITATE, AGITATE. Batch tank, Nurse tank, Application machine.
6. Use nozzle orifices as large as possible. 0.065 preferred minimum diameter. We have had success with as low as 0.054 when above procedures are followed. (This was in a starter system in a potato planter. 20-25 psi and 25 gpa.) . Use screens of 50 mesh or larger.
7. Maintain agitation throughout the storage and application process.

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