

Protocols and Timing of Fulzyme Plus Applications for Apple Orchards

Fulzyme Plus contains living organisms *Bacillus subtilis*
Beneficial bacteria plus selected amino acids

- 1/ Fulzyme Plus - minimum application rate 1 kg or 1L Ha applied 3-4 times per season to apple trees
- 2/ Water rate – 1000-2000L/ Ha
- 3/ Fulzyme Plus has UV resistance from the sun however drying of the organism by hot wind and sun is not beneficial. Apply in late afternoon so the organism can flourish overnight where free moisture from dew is present or apply during overcast and drizzly days or fog
- 4/ Please use clean water, certain levels of town chlorinated water may be harmful to organisms. Water pH should be buffered with organic based acidifier to 5.5 – 6. Best growth between pH5-8
- 5/ The required amount of Fulzyme® Plus MUST be soaked in a clean container of clean lukewarm water (20°C — 30° Celsius) for 3 hours to successfully activate before use as a foliar spray
- 6/ Where possible please apply Fulzyme Plus alone as it contains living organism
- 7/ Fulzyme Plus is quite hardy and not so temperature sensitive
- 8/ Tank cleaning procedures are necessary. Please follow instructions on labels and product information sheets carefully. Ensure you use clean spray equipment free from harsh farm chemical residues (by dissolving 1-2 kg of urea (or Bicarbonate of soda) per 200 L tank. Fill tank and spray hoses and let sit overnight along with filters. Next day empty tank and rinse before using Fulzyme Plus
- 9/ Fulzyme Plus does not require refrigeration, as it is a very stable product normal shelf conditions, away from chemicals is good
- 10/ Continuously agitate tank mixture of Fulzyme Plus and water whilst spraying for even dispersal
- 11/ Fulzyme Plus is NOT compatible with Copper, Chlorine and Sanitizers
- 12/ Stand down before or after bactericide use should be 7-10 days, please leave as long as possible between copper and Fulzyme Plus applications
- 13/ Keep PSI pressure as low as possible to ensure living organisms are not desiccated
- 14/ EC best at 5 or below
- 15/ Fulzyme is in liquid form so it will not block filters
- 16/ Ensure good coverage (Compatible with Natural wet spreader)
- 17/ Please call Roots Shoots & Fruits with questions or queries - 09-3729155

Best Practice Timing for Apple Trees

1st Application: *(Immediately after harvest when first picking wound is created)*
Fulzyme Plus no less than 1000g or 1000ml / Ha

2nd Application: *(After carbohydrate storage is complete)*
Biomin copper 2kg / Ha

3rd Application: *(100% leaf defoliation)*
Fulzyme Plus no less than 1000g or 1000ml / Ha

4th Application: *(Immediately after winter pruning)*
Fulzyme Plus no less than 1000g or 1000ml / Ha

*** Please remember rain events increase pathogen pressure in orchard so timing of biological around or before rain events is always recommended

***Biomin Copper applied at 2kg / Ha can give an even leaf defoliation pre dormancy –
Leaf fall creates scar tissue and entry wounds for various pathogens, whilst Fulzyme plus as a beneficial organism callus wounds



Grower spraying in wet misty conditions ideal timing for Fulzyme plus applications