



Decanting Procedures

PlantShield® HC

Under normal circumstances the use of PlantShield® HC, does not require decanting. However, when using high injector ratios (above 1:100), for restricted flow drip irrigation, in certain hydroponics situations, and for fogging applications, decanting may be required. The decanting procedure is used to remove inert solids from the supply tank, while leaving the active ingredient (*Trichoderma harzianum* strain T-22 spores) in the water. Use PlantShield HC at a rate of 4oz. /100 gallons for drench applications. For sub-irrigation, BioWorks recommends using 5 to 6 ounces per 100 gallons. Foliar spray rates are 25 to 50 ounces per 100 gallons.

Decanting Procedures

1. Place one gallon of water in a bucket
2. Place appropriate amount of PlantShield in a plastic bag and add enough water to thoroughly wet the powder while gently mashing the bag. (Fig. 1)
3. Use part of the one gallon of water to rinse the wet PlantShield into the bucket.
4. Continuously mix the solution until all clumps are dissolved.
5. Let the solution sit for 10 minutes. (Fig. 2)
6. Agitate the solution, by stirring or with a submersible pump, for 10 minutes.
7. After the 10-minute agitation, let the solution sit for one minute. (Fig. 2)
8. Carefully pour off the brown-green liquid containing the a.i. into your stock tank (for injector systems) or spray tank. The spores are not in the foam at the top of the solution. (Fig. 3)
9. Leave the solids (inert carrier) in the container. (Figs. 4 & 5)
10. Add a small amount of water to the solids to remove any remaining active ingredient. Mix for one minute, then let the solids settle for one minute. Add the brown-green liquid to the supply tank or spray tank and bring to final volume leaving the solids (inert carrier) in the container as done in steps 8 and 9.
11. Be sure to agitate the supply tank during use.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

Remember

- It is important to remove as much liquid above the solids as possible. The liquid contains the active ingredient not the foam at the top that results from mixing.
- The transfer of some solids into the supply tank is not a problem. The solids represent the inert carrier of the organism and not the active ingredient itself. By following this procedure, the active microbe is released into the water and is recovered by pouring the liquid from steps 8 and 10 into the supply tank or spray tank.
- Please be sure to agitate the supply tank during use.

Refer to product labels for complete application details. PlantShield® is a registered trademark of BioWorks, Inc. Always read and follow label directions.