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How You Grow Matters™



Procedures to Use PlantShield® HC

PlantShield® HC is a wettable powder formulation for use in drenching, spraying, or chemigation for plant disease prevention and control. The directions below outline techniques that will insure successful mixing and the best application of PlantShield HC.

For root applications: When using an injector set at a 1:100 ratio, 4-ounces of PlantShield HC should be suspended in a gallon of water to deliver 100 gallons of treated water to your plant's roots. You should apply 8 ounces of treated water per 6-inch pot. With this recommendation, 4 ounces of PlantShield HC will treat approximately 1,600, 6-inch pots. Screens smaller than 80-mesh should be removed from the injector system or should be bypassed. The stock tank should be agitated, for example with a small submersible pump, during application.

DIRECTIONS:

1. Fill a bucket (or stock tank) with the desired amount of water.
2. Add a half-teaspoon of a nonionic surfactant to the water and thoroughly mix (optional).
3. Slowly add the appropriate amount of PlantShield HC, at a rate of 4-ounces per gallon of stock solution, when using a 1:100 injector ratio, while continuously mixing the solution. (See the tip below for an alternate method.)
4. Vigorously mix the solution for at least 3 minutes.
5. If a bucket is used, pour the suspension into the stock tank.
6. **The stock tank should be agitated during application of PlantShield HC.**
7. Place the inlet screen of the injector line **1" to 2" above the bottom of the stock tank.**
8. Immediately apply the suspension; **again make sure the stock tank is continuously agitated during application.**
9. After treatment, be sure to do a clear water rinse to flush the injector.
10. A small amount of residual carrier may be observed in the bottom of the stock tank after application. This is normal and does not affect the performance of PlantShield HC.

A Tip to Speed up the Wetting of PlantShield® HC

After weighing out or scooping the amount of PlantShield HC you need for your application, put it into a plastic bag; add enough water to make a slurry and twist-tie it closed. Shake the bag vigorously and, if necessary, break clumps by pinching through the bag. Pour out the slurry and rinse the bag into your stock tank or bucket. Then add the remaining amount of water needed. This greatly simplifies the process of getting PlantShield HC into suspension. It also eliminates any dust associated with stirring PlantShield HC into the water.

This tip is from BioWorks' customer Tom Culak of Clesen Wholesale in Evanston, IL who has successfully used PlantShield HC for a number of years.

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