

A Proactive Program for Year-Round Cockroach Control in Swine Facilities

Treatment for cockroach infestation can be time-consuming, costly, and still ineffective. This program was designed to provide greater success in roach management, predictability in annual costs, and an approach that significantly decreases time spent treating outbreaks.

Through the long-lasting residual activity of PureScience TechDust® roach populations can be knocked back quickly prior to the peak season, allowing for consistently low levels of roaches despite temperature fluctuation. In addition to proven efficacy, PureScience TechDust uses nature-derived active, Thyme Oil, and is safe for animals, workers, and the environment. The application procedure and reduced frequency described below can result in a significant improvement in ease and speed of application.

Cockroach Control for Swine Facilities using PureScience TechDust

Regular Maintenance Program for Farrowing Houses

1. After depopulation of rooms, conduct normal washing and disinfecting. Allow time to dry.
2. **ALL FANS NEED TO BE SHUT DOWN** during application of the dust and for about 10-15 minutes after the application to allow the dust to settle.
3. Apply PureScience TechDust at a rate of 2.5-3.25 pounds per 1,000 sq. ft.
4. The best method of application is to use a backpack mist blower set on the #4 or #5 notch of the dust delivery knob. Operate the blower at an idle.
5. Walk slowly through the room moving the delivery wand from side-to-side to insure complete coverage of the surfaces being treated.
6. It is very important that the **dust remain undisturbed on the treated surfaces for at least 5-6 days, or longer if possible**, in order to create good exposure time for control success.
7. Repeat applications about every 6-8 weeks during the entire year. In most cases, this would call for making an application every other time the house is depopulated.

CURATIVE APPLICATION FOR FARROWING HOUSES

While pigs are present, curative applications may be made as needed, but remember that fans need to be shut down during the application and that the dust needs to remain undisturbed for a minimum of 5-6 days.

Regular Maintenance Program for Breeding Houses

1. Roach control application should be performed during the cooler months of the year. It is recommended to make 2 applications in the fall, and an additional 2 treatments in the spring, before the daytime temperatures get too high to allow the fans to be off during the application.
2. Apply using the same rates, application equipment, and settings as above for farrowing houses. **ALL FANS NEED TO BE SHUT DOWN** during application of the dust and for about 10-15 minutes after the application to allow the dust to settle.
3. PureScience TechDust can be applied with pigs present.
4. Treatment of the sidewalls and cage pipe openings are particularly important to direct the dust applications. If populations are very high, the entire building needs to be treated.
5. During the hot summer months if it is not possible to keep fans off during the applications and/or Misting Systems are being used on a daily basis, applications of the TechDust will not perform very well as the product must settle and not be washed away to provide long-lasting control. If treatment is needed outside of this program during these hot periods, consider spray applications of other roach knock-down products labeled for use with animals present.

This routine fall / spring maintenance program should produce very low roach population numbers, so that during the hot summer months the roach populations will remain at low levels without requiring additional curative treatments.

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