

Cockroach IPM Guide

Sanitation, Monitoring & Treatment

Cockroach management is an ongoing challenge in many types of accounts, such as food areas, chronically damp areas, multi-family housing and production animal housing. It is critical to use a variety of techniques for a successful control program. An optimal IPM program should include as many of the following elements as possible: sanitation, proofing, habitat modification, multiple treatment options, and monitoring.

German roaches are a sanitation pest, as are Oriental roaches in many instances. In commercial food facilities, PMPs can add revenue by offering a Bio Sanitation program in addition to pest control services and provide a more comprehensive solution. In some accounts such as multi-family housing, sanitation improvement is often not a reality, so PMPs are faced with a more challenging environment. For German roaches, particularly in accounts with chronic pressure, rotation with multiple products is critical to prevent resistance and provide the best results for the lowest cost. For periodomestic roaches, such as Americans, habitat modification where possible and perimeter prevention programs yield good results. The range of treatments and protocols available from Rockwell provides world class results and exceptional value for any cockroach challenge.

Gel Baits

Gel baits are a mainstay of German cockroach management. However, over the last 20 years, bait aversion (roaches no longer eating the bait) and widespread control failure has surfaced several times, causing manufacturers to reformulate baits. This problem is due to repeated use of the same or similar baits. The roaches that don't eat the bait are the ones left to reproduce and they become a larger and larger percentage of the population over time. Therefore, at a minimum, at least two gel baits should be rotated in a control program. With baits, the quality and diversity of attractants is as important as the active ingredient. Rockwell offers a series of baits that incorporate a diverse range of premium quality food grade attractants. These attractants are designed to be intentionally different from those in other baits on the market.



InVict Gold Cockroach Gel contains 2.15% imidacloprid and provides lightning fast control. Roaches begin dying in as little as 20 minutes after eating the bait with proven secondary kill when roaches are exposed to only the droppings and carcasses of roaches that consumed InVict Gold. It is also formulated without the eight most common food allergens making it an ideal choice for treatment in sensitive accounts such as schools or food plants. InVict Gold is the best choice for initial cleanouts, to bring a cockroach population under control quickly.

InVict AB Insect Paste is formulated with 0.05% abamectin, a proven active derived from soil microbes. It contains a wide range of attractants and is ideal for rotation with InVict Gold. After the initial cockroach population is brought under control using InVict Gold, rotation every three months with InVict AB will help ensure a resistant population of cockroaches cannot take over. The bait will remain soft and accessible to

roaches for extended periods. InVict AB also has the added benefit of being a multi-use bait and will keep infestations of silverfish and ants under control as well as cockroaches.

Granular Baits

Granular baits should be a mainstay for large roaches - eg. Americans, Orientals, Smokybrowns - but they also add value and diversity to a German cockroach program, offering a very different bait matrix compared to gels. They are ideal for outdoor use, but can also be dusted into pipe chases, sewers, attics, above dropped ceilings, under appliances etc indoors, where they will remain effective for extended periods.



InVict Xpress Granular Bait contains 0.5% imidacloprid and a wide range of attractants that cockroaches and other insects find irresistible. InVict Xpress provides rapid knockdown of large populations. Highly weatherable InTice 10 Perimeter Bait with 10% boric acid is the perfect choice for quarterly perimeter treatments to keep cockroaches at bay all year long. Also, with its excellent moisture resistance, InTice 10 is a great choice for damp areas indoors for German roaches and a range of other insects.

Dusts

Dusts also play a critical role in cockroach management. In undisturbed areas such as wall voids, treatments that will remain effective for years are ideal. CimeXa Insecticide Dust kills via contact and provides exceptional control over a wide range of pests. It will remain active for up to ten years if undisturbed. It is comprised of 100% engineered amorphous silica that clings to pests and causes rapid dehydration and death. CimeXa is odorless and non-repellent allowing insects to travel through treated areas and die, versus simply repelling them. CimeXa can be applied as a dust or wettable powder and features extremely low toxicity.



In areas with chronic dampness such as commercial kitchen floors, around drains or in sewers, BorActin Insecticide Powder with 99% boric acid is a powerful tool. Unlike other boric acid dusts, BorActin is milled to an extremely fine powder using pharmaceutical grade equipment. The finer the dust, the better it will stick to the insect and be ingested during grooming. With updated labeling, BorActin can also be applied as a spray, foam or mop solution. In commercial kitchens with poor sanitation, where management isn't interested in a Bio Sanitation program, BorActin can be applied to the areas with organic build-up (via dust, spray or mop), effectively "poisoning" the roaches' food source. (This technique will help with other sanitation pests such as small flies.)



Bait Palatability

Bait palatability is crucially important because they contain food ingredients. Bait that is fresh when applied and has not been stored for long periods of time will be more attractive to roaches. At Rockwell Labs, we carefully test and select the food ingredients that are most desirable to the target insects. We manufacture our baits just in time and ship them directly to our distributors, not to a third party warehouse for later distribution, so you can be sure the product you purchase is as fresh as possible.

General Tips

- Clean up litter in the area. Cockroaches love clutter. The more areas they have to hide, the harder it will be to control the infestation.
- Remove organic debris. Baits will be less effective if there are other food sources available. In commercial accounts such as restaurants which are chronically damp and have lots of organic build-up, Rockwell's Bio Sanitation program provides the most effective cleaning.
- Monitor the treatment. Using monitoring stations such as the D-Sect IPM Station with InVite Roach Lure will help determine if the treatment is working or needs to be adjusted over time.
- In accounts that require high volumes of bait such as hospitals, prisons, production animal facilities, sewers or multi-family housing units the "Big Gun" packaging option is ideal for reducing time spent applying bait. InVict Gold Cockroach Gel and InVict AB Insect Paste come packaged in 300 g tubes that fit standard caulking guns.

"I've had an account where we struggled with American roaches for five years. Recently, I met Pat Ryan at a show and he told me about Rockwell's new InVict Xpress Granular Bait. I took it out to this account and gave it a try. I've never seen so many dead roaches in my life. The results were amazingly quick



and I also saw ants picking up the granules and taking it away. I've been in business for over 30 years and this is the best roach product I've seen in a long time. Rockwell has a homerun with this bait."

- Kevin O'Connor, *Eliminex Pest*