

ROCKWELL LABS TECHNICAL GUIDE A *REVOLUTIONARY* PROTOCOL FOR BED BUG ELIMINATION

Update your bed bug protocol with Aprehend® and CimeXa® to achieve peak treatment efficacy while reducing labor costs, shortening technician call times, and enhancing customer satisfaction.

Why Modern Bed Bug Control Requires a Different Approach

Bed bugs can survive for months without feeding, hide in extremely small harborages, and are frequently resistant to many conventional insecticides. Successful elimination requires a treatment strategy that targets exposed and hidden bed bug populations while providing long-term protection against reinfestation.

Innovative and Integrated Bed Bug Solution from Rockwell Labs

Combining Aprehend® and CimeXa® sets the standard for bed bug treatment success, and provides a viable opportunity for effective quarterly preventative services. These complementary modes of action deliver results without resistance.



Key Benefits

- Kills adults and nymphs.
- The transfer effect targets populations hidden deep within harborages.
- Up to 90-day residual protection.
- Non-repellent mode of action.
- Effective against resistant populations.
- Barrier method drastically reduces the need for customer preparation.

Aprehend®

Aprehend® is an innovative fungal biopesticide that utilizes naturally occurring spores of *Beauveria bassiana* to deliver highly effective bed bug control — even against insecticide-resistant populations.

Designed to leverage natural bed bug behavior, Aprehend® targets both active bed bugs and those hidden within harborages. As bed bugs cross a strategically applied treatment barrier, microscopic spores adhere to their bodies and begin germinating within 20 hours, penetrating the insect's cuticle and causing infection and death. Infected bed bugs continue their normal movements, spreading spores throughout the population and helping reach hidden bed bugs in harborages for more comprehensive control.

Aprehend® is transforming the way pest management professionals approach bed bug control. Targeted barrier application reduces treatment time, minimizes follow-up visits, and helps lower labor costs while improving operational efficiency. Customers benefit from minimal preparation requirements, less disruption to daily routines, and a better overall service experience. Unlike many traditional treatment methods, Aprehend® typically eliminates the need for a routine two-week follow-up, with treatment success typically confirmed during a single 30-day inspection.

Beyond remediation, Aprehend® creates opportunities for growth through quarterly preventative treatment programs in hotels, multifamily housing, healthcare facilities, and other high-risk environments. By incorporating Aprehend® into key accounts, pest management professionals can generate recurring revenue, strengthen customer relationships, and provide long-term peace of mind through effective, low-disruption bed bug control.

CimeXa®

insecticide dust

CimeXa® Insecticide Dust is an amorphous silica dust that is specifically engineered to deliver exceptional pest control results. Rather than relying on traditional chemical action, CimeXa® damages the insect's protective outer layer, causing rapid dehydration and death. CimeXa® is effective against adults, nymphs and nymphs hatched from dusted eggs, including resistant populations. It provides a non-repellent residual treatment that can remain effective for years when left undisturbed. Applied to cracks, crevices, voids, and other harborages, CimeXa® supports long-term protection as part of a comprehensive bed bug management program.



Key Benefits

- Rapid kill through physical mode of action.
- Also effective against resistant populations.
- Non-repellent.
- Odorless and non-staining.
- Long-lasting residual protection in undisturbed areas.
- Ideal for voids, cracks and inaccessible harborages.
- Can be brushed into tufts and seams of mattresses.
- Additional protection against 20+ labeled pests.

Assessment Based Bed Bug Management

Start with Inspection

Every bed bug service begins with proper inspection of:

- Primary sleeping and resting areas.
- Active and potential harborages.
- Evidence of feeding and reproduction.
- Population distribution throughout the structure.

Step 1: Physical Removal

Physical removal quickly reduces populations and improves treatment performance.

Before treatment:

- Vacuum visible bed bugs whenever possible.
- Remove heavily infested debris.
- Launder bedding and linens using high heat.
- Reduce clutter around sleeping areas.

Step 2: Apply Aprehend® Strategically

Apply narrow treatment barriers in locations where bed bugs naturally travel.

Primary Barrier Locations

- Bed frames
- Headboards
- Box springs
- Recliners
- Sofas
- Couch frames
- Nightstands
- Furniture adjacent to sleeping areas



Aprehend®



Application Principle

The goal is not to spray every surface. Instead: **Place barriers between bed bug harborages and the human host.**

As bed bugs move to feed, they cross the treated areas, acquire fungal spores, and transport them back to the harborage where transfer between individuals can occur.



Tip from the Pros

For cluttered or particularly challenging environments, applying barrier lines with blue painter's tape gives both the technician and the customer a visual indication of where the Aprehend® barriers have been sprayed on the ground or walls. This indication will help prevent barrier disruption as well as providing a controlled surface for Aprehend® application.



Infestation Severity Guidelines

Low-Level Infestations

- Activity limited to beds and primary furniture.
- Apply primary Aprehend® barriers.
- Treat mattress with CimeXa®, with optional mattress encasement.
- Supplement with CimeXa® in nearby voids.

Moderate Infestations

- Evidence spreading beyond beds and seating.
- Add additional barriers on and around furniture, avoiding application to delicate fabrics like silk.
- Treat mattress with CimeXa®, with optional mattress encasement.
- Expand CimeXa® applications to adjacent harborages.

Heavy Infestations

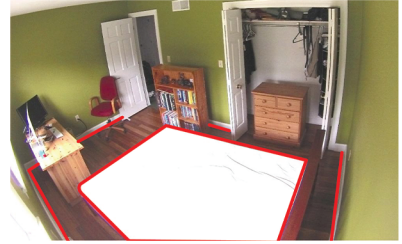
- Widespread evidence throughout rooms.
- Add secondary barriers to baseboards, door frames, and moldings.
- Increase void and crack-and-crevice treatments with CimeXa®.
- Treat mattress with CimeXa®, with optional mattress encasement.

CimeXa® Application Protocol

Where CimeXa® Excels

CimeXa® should be applied in areas where dust treatments provide superior coverage, or where liquid applications are not practical. Beyond the recommended application sites below, CimeXa® is a desiccant that is engineered for rapid and long-lasting control on a broad spectrum of insect pests. While creating a deadly duo protocol when paired with Aprehend®, CimeXa® is also extremely effective against many other labeled pests. By working to destroy the waxy cuticle of insects, it's able to absorb water and oils from their exoskeletons, causing rapid dehydration and death. Unlike traditional insecticides, CimeXa® provides long-lasting residual control and remains viable for up to 10 years when left undisturbed, helping protect hard-to-treat areas long after application. CimeXa® complements the fungal mode of action of Aprehend® by providing an additional non-repellent layer of defense, delivering broader pest protection and increased peace of mind for customers.

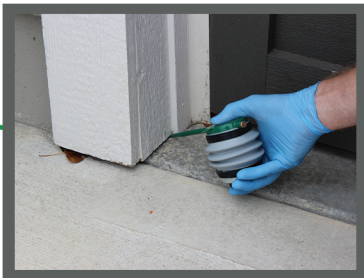
CimeXa®
insecticide dust



Recommended Application Sites

Wall and Structural Voids

To effectively reinforce treatment of hidden harborages, apply CimeXa® to wall and structural voids, including behind baseboards, inside wall voids, around plumbing penetrations, around electrical outlets and junction boxes, and beneath carpet tack strips.



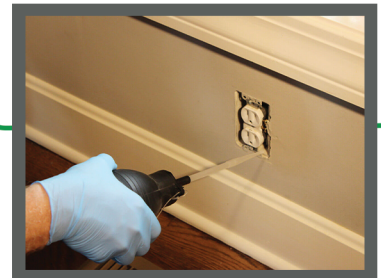
Furniture and Bedding Components

In furniture and bedding components, apply CimeXa® to mattress seams and folds, upholstered furniture creases, recliners, nightstands, and interior furniture voids where bed bugs commonly hide and travel.



Other Harborages

Treat other potential harborages, including picture frames, curtain rods, window coverings, decorative wall hangings, light fixtures, and inaccessible cracks and crevices, to target bed bugs in hidden areas throughout the structure.

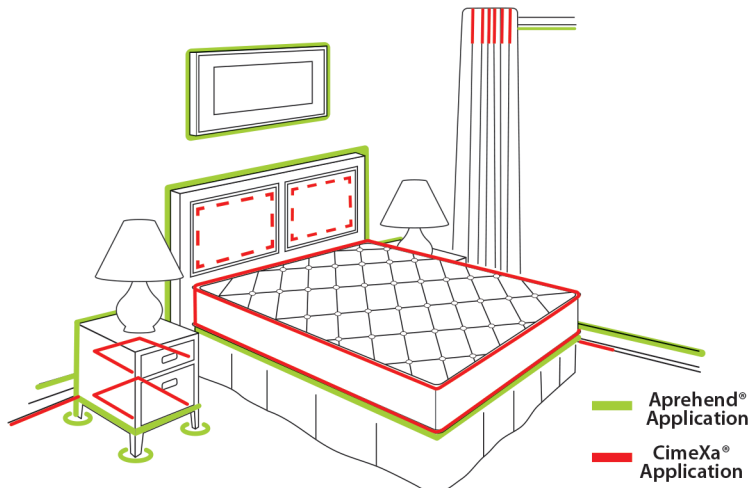


Critical Application Guideline

Do NOT Apply CimeXa® Directly Over Aprehend® Barriers
Keep applications separate.

Aprehend® should remain the primary travel barrier.

CimeXa® should supplement treatment in voids, harborages, cracks, crevices, and enclosed areas, providing long-term protection.



Protocol In Action

The green lines represent examples of strategic barrier placement lines for Aprehend®.

The red lines represent ideal placement for CimeXa®.

While it's important these lines do not cross, this represents the protocol in action.

The pairing of these two products provides complete bed bug control and prevention without the use of traditional chemicals and with no odor. When used together, this protocol requires less prep work, less repeat visits, minimal preparation and less disruption of living spaces.

Customer Education and Service Success



Replace Excessive Preparation with Education

Modern bed bug management focuses less on extensive customer preparation and more on helping customers understand the treatment process.

Aprehend®

CimeXa®
insecticide dust

Before Treatment

Customers should:

- Remove bedding and launder bedding and night clothes on high heat.
- Remove trash and unwanted items to the extent possible.
- Maintain technician access to sleeping areas.
- Follow disposal instructions for heavily infested items.

Follow-Up Expectations

Because both **Aprehend®** and **CimeXa®** provide long-lasting residual activity:

- Immediate retreatments are typically unnecessary.
- Bed bugs continue contacting treated surfaces for weeks after application.
- Follow-up inspections are often best scheduled approximately 30 days after service to confirm control, allowing time for peak treatment effectiveness to take place.

After Treatment

DO:

- ✓ Continue normal sleeping habits.
- ✓ Leave treated furniture in place.
- ✓ Trust the treatment process.
- ✓ Report unusual activity during follow-up inspections.

DO NOT:

- ✗ Wash or clean treated barriers. A very light oil sheen may be seen on treated hard surfaces.
- ✗ Apply over-the-counter insecticides.
- ✗ Move infested items to new locations.
- ✗ Bag or box potentially infested belongings without guidance.

Benefits of the Integrated **Aprehend®** + **CimeXa®** Protocol

For Technicians

- Faster service delivery.
- Reduced callbacks.
- Assessment-based treatment flexibility.
- Less dependence on conventional insecticides.
- Less customer preparation required.
- Can be used for quarterly preventative treatment.

For Customers

- Reduced disruption to daily lifestyle.
- Lower preparation burden.
- Long-term protection.
- Effective control of resistant bed bug populations.



Technical Training Available!

Visit the **Aprehend®** YouTube Channel or Contact your Rockwell Rep today!

SCAN TO LEARN



More About
Aprehend®

More About
CimeXa®



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creating the future of pest control

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