

## CIMI-SHIELD KNOCK-OUT and PROTECT Application Instructions

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### Application Instructions for Cimi-Shield Knock-Out and Cimi-Shield Protect

- Knock-Out is to be used for active infestations
- Protect is to be used to prevent future infestations
- Both products contain the same twelve-month residual

CIMI-SHIELD is nontoxic to all humans and their mammal pets. In rare instances, some people experience a mild drying of their skin when they come in contact with the product. For this reason, we recommend that when you are preparing, the product you follow the safety instructions, wear gloves and avoid direct contact.

Although nontoxic to humans and other mammals, CIMI-SHIELD is deadly to all known strains of bedbugs. When applied as a fan spray, it acts to “digest” the bed bug’s outer waxy layer. It is lethal to the insect that contacts it.

CIMI-SHIELD is expected to be used in close proximity to human habitation and is intended to be applied to textiles and fabrics. Upon drying, it becomes enmeshed in the fibers and leaves a residue that will continue to remain lethal for a year from the date of application. If a new bed bug is introduced to the treated surface, it will be dead in a matter of hours. CIMI-SHIELD is water soluble and neutralized by exposure to detergents and surfactants. Treated areas may be vacuumed, but shampooing and laundering will remove the residue.

CIMI-SHIELD is applied the same way whether it is being used as a preventive, or to knock down an active infestation.

Each step is important. Bed bugs, like most pests, possess innate abilities to survive and propagate. Partnership with your client in this process is essential. Your careful administration of these application instructions will allow you to gain control over the target area eliminating infestation and at the same time protecting the treated area against reinfestation for a year.

### *Preparing the Target Area: (Please check off each number as completed)*

1. Remove all debris from all floors, closets, drawers, shelves, medicine cabinets and any other enclosed areas. Vacuum all accessible areas as thoroughly as possible. For active infestations, this process will reduce the number of eggs and insects and leave a cleaner surface for the application of Cimi-Shield. Vacuum bag and debris should be placed in airtight plastic bags and sealed and placed in trash.

2. Move all furnishings away from all walls to create a space large enough to give you access.

3. Remove all drawers from all furniture having drawers. Place drawers on end or upside down so that the inside of the furniture and the underside of all drawers are exposed and may be sprayed.

4. Remove all cushions and pillows from all chairs and couches. Stage in an area so that they may be sprayed.

5. Close all drapes so that all surface areas are exposed so that they may be sprayed. This can be done last so as to keep the room light.

6. Loosen any headboards, headboard supports, pictures, wall hangings, and any other fixture abutting or attached to any wall or ceiling so that “stream spray” may penetrate the space between these items and the wall or ceiling to which they were attached.

7. Remove all bedding and pillowcases from all beds and bag securely. When emptied place the empty trash bag in the trash. Do NOT reuse.

8. Active Infestations Only - Bedding should be washed and dried separately.

9. Separate the box springs from the mattress so that the entire bed frame, its railings and wheel or support assemblies are exposed. Stand mattress and box springs so that all surfaces may be sprayed. If the box spring has a dust covering on its bottom, carefully cut away with scissors so that the inner surfaces and springs are exposed (place the cover in a plastic trash bag).

10. Fans and forced air units should be turned off while spraying.

11. Any flower arrangements or other décor items should be disassembled and all parts exposed.

12. Active Infestation Only - If the target area contains a kitchen, all contents from the cabinets must be removed so that the interiors of all storage areas are exposed.

13. Active Infestation Only - DO NOT remove any of the furnishings or décor items from the target area as this may spread the infestation.

### *Treating the Target Area: (Please check off each number as completed)*

1. Because CIMI-SHIELD is nontoxic, no special breathing apparatus is needed. Wearing latex or rubber gloves is recommended; in case of contact, rinsing with ordinary tap water

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is all that is needed. Eye protection is optional and rare cases of mild eye irritation have been reported. Do NOT rub your eyes.

2. Vigorously mix the bagged product then pour the CIMI-SHIELD into a new, dedicated spray apparatus. It must never have held pesticides, detergents or soaps - this will reduce the efficacy of the product. Mix with distilled water only. Follow dilution instructions carefully adding water to the total amount of liquid prescribed. Each six-ounce bag should be mixed with 122 ounces of distilled water to produce one full gallon (128 fluid ounces). Do NOT over dilute.

3. Be sure the spray apparatus 1) does not include a filter which may be included in its tank or handle (remove if found) 2) has both a "fan" and a "stream" or "pin stream" spray setting. Shake the mixture vigorously before beginning to spray. As you proceed, re-shake the container every 10 to 15 minutes. If the container is set to rest, reshake before resuming spraying. If diffusion becomes difficult or impaired, remove the nozzle and rinse it with tap water. Failure to keep the nozzle clean will impede an even distribution or cause the fan spray not to work at all.

4. Spray should be applied with the nozzle approximately 24 to 30 inches from surface areas when treating furnishings. When spraying drapes and carpets, hold the nozzle 18 to 24 inches away. Cover about 3 to 4 linear feet per second. Using more will cause the particulates to clump and is a waste. Release the trigger if your rate of progress is slowed. Do NOT overlap.

5. Cracks and crevices appropriate for liquid application can be treated using the pin stream setting or a crack and crevice tip. The sites may include such things as furniture or bed frame joints, headboards, cracks around baseboards, mattress seams, seams around cabinets, and any other zones where liquid applications can be made.

6. The "fan" spray setting should be used to treat all window coverings and drapes. When one side is treated, the coverings and drapes should be "twisted" (rotated) so that the reverse side is exposed and also treated. It is acceptable to treat a 12" perimeter beside the drapes on both sides, or anywhere the drapes come in contact with other surfaces.

7. The "fan" spray is also to be used to treat all cushions and pillows and any other bedding. Be sure to turn each item so that all surfaces are treated. Likewise, fan spray all the disassembled drawers and other furniture parts that have been disassembled. Make sure all outer surfaces are treated, as well as all undersides, rails and corners. Do not treat the insides of the drawers, just the bottoms and outsides.

8. Using the "fan" spray and beginning in the farthest corner, spray only the carpeted areas from which furniture has been removed and, in particular, the carpeted area directly under and around any beds. If carpet is coved, be sure and spray behind any loose coving. Make sure the carpets are well vacuumed before application.

9. Using the "fan" spray, evenly diffuse CIMI-SHIELD over all surfaces of the box springs and mattress. Spray inside the box spring if the dust cover has been removed. Particular attention should be given to the treatment of seams and the underside of the box springs.

10. If bolt holes are visible where a headboard has been secured, poke nozzle in the hole and spray slightly.

11. After the treatment has dried, wipe off any over spray on glass, furniture or other hard surfaces with a dry towel or microfiber rag.

12. Once you have determined that the disassembled furnishings and intended areas have been properly treated and dried, reassemble the furniture, the bedding, the couches and chairs and other furnishings and return these items to their intended positions. Re-secure all items to walls and ceilings and untwist drapes and window coverings. Wipe away any over spray noted during this process.

13. Using the "fan" spray and beginning in the farthest corner, spray all remaining carpeted areas including closets and entry areas so that you are satisfied that all carpeting has been treated.

14. Sign off on the scheduling Worksheet the date and time that this treatment and inspection was completed.

#### Record of Application

I, the undersigned, attest that I have personal and first hand knowledge that the statements and information provided below is true and complete, and the prescribed protocol was completed in careful compliance with this Manual of Instruction.

1. Application Date: \_\_\_\_\_

2. Customer Name: \_\_\_\_\_  
Property Owner/Manager

3. Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Treated Area(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. By: \_\_\_\_\_  
Print your name and give employee ID number if available

\_\_\_\_\_  
Your Signature

\_\_\_\_\_  
Date