

# **CROSSFIRE®** bed bug concentrate

CrossFire® Concentrate brings two new actives to the fight against bed bug infestations. The result is fast knockdown and kill with direct spraying. Plus residual control. CrossFire targets all bed bug life stages (adult, nymphs and eggs) and is scientifically formulated to kill pyrethroid-resistant bed bug strains.

- Kills bed bugs and bed bug eggs
- Accepted for direct application on mattresses
- Multi-mode action and control
- Direct contact provides control in less than 5 minutes with direct spraying as shown by independent testing
- No signal word

## Product Specifications

Signal Word	None
Packaging	13 oz. bottle (10 per case) 130 oz. bottle (2 per case)
EPA Registration Number	1021-2776
Food Handling	Not for use in food handling areas
Stability of Undiluted Product	Chemically Stable
Stability of Diluted Product	Chemically Stable
Appearance	White, milky liquid
Odor	Slight sweet smell
Active Ingredients	Clothianidin, Metofluthrin and Piperonyl Butoxide
Flammability	Not classified as a combustible or flammable liquid by OSHA
Mode of Action	Sodium channel modulator – disrupts insects' nervous system Binds to the nicotinic acetylcholine receptors – disrupts insects' nervous system Interference with P-450 mediated detoxification system
Class of Chemistry	Pyrethroid, neonicotinoid, synergist
Respirator Required	Not required
Mix or Dilute in	Water only
Activity	Contact kill, residual activity
Shelf Life	3 years or more if stored at room temperature



## Use Areas

### Indoors in the Home and Non-food Areas, such as:

Restaurants  
Schools  
Warehouses  
Offices  
Apartments  
Hotels  
Nursing homes  
Hospitals  
Kennels

### In Pet Areas

Pet sleeping quarters  
Pet bedding  
Floor and floor coverings where pets are kept

### Where Bed Bugs Hide

Mattresses  
Box springs  
Headboards  
Walls  
Floors  
Baseboards

### Not for Use on Humans or Animals

## Key Target Pests Controlled

Bed Bugs

TECHNICAL BULLETIN



## Method of Application

- Apply with handheld, backpack or with a paintbrush
- Use indoor crack and crevice or direct spray application in non-food areas

## Best Practices when using CrossFire® Insecticide Bed Bug Concentrate

### Effective Bed Bug Application

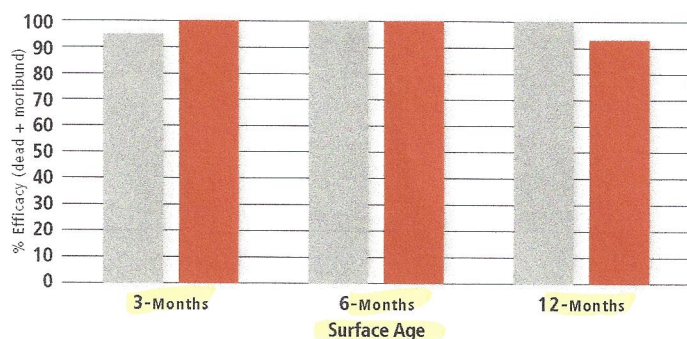
For best results, in addition to treatment with CrossFire Insecticide Bed Bug Concentrate, pest control professionals should include tactics such as those listed below:

- Thoroughly inspect the premise for potential harborage sites. Besides common harborage sites associated with sleeping areas, bed bugs can harbor in many other areas, such as those listed below. The identification and treatment of all harborage sites is the foundation of successful bed bug control.
  - Behind wall hangings, pictures and mirrors
  - Behind electrical switch plates
  - In electronics such as radios and alarm clocks
  - Under rugs and floor coverings
  - In all nooks and crannies of nightstands
  - All parts of beds; headboards, footboards, mattresses, box springs, frames
- Bed bugs are commonly found in adjacent units to the one being treated. Therefore, if it is possible, inspect the adjacent units (next, across, above and below) for bed bug infestations.
- Address if clutter is present within the premise. Be aware that in many cases clutter also provides harborage sites for bed bugs. The inspection of clutter allows the identification of additional bed bug populations present in the area. Once disturbed, bed bugs could disperse away from the clutter, creating additional pockets of infestation. In addition, bed bugs can be easily moved along with the clutter so create a plan in advance on how to treat and/or avoid spreading bed bugs into new areas of the home while working with the clutter.
- Laundering: seal infested items into a plastic bag to avoid spreading bed bugs within the home. Carefully empty the bag containing infested items into the laundry and then place the bags into a clean bag for disposal. Do not reuse the bags used to transport infested items. Wash and dry on high heat for 30 minutes to kill all bed bugs.
- Dispose of infested items that can be discarded.

### Test the surface first

CrossFire Concentrate will not stain water-safe fabrics and surfaces. To make sure a surface is water-safe, apply in an inconspicuous area to test for possible staining or discoloration. Check after product has dried; if staining has not occurred, apply product to the treatment area.

## Residual efficacy of CrossFire on two common surfaces against bed bugs, *Cimex lectularius* (Winston-Salem pyrethroid resistant strain)



Mattress

Unpainted Wood

#### Method:

Residual contact efficacy evaluation on mattress and unpainted wood. Exposure duration: 5-minutes. Target species: bed bug, *Cimex lectularius*. Bed bug strain: Winston-Salem pyrethroid resistant strain (RR=440-fold resistance to deltamethrin). CrossFire application: 1 gallon of finished dilution/1,000 ft<sup>2</sup>. Four replications with 10 bed bugs per replication. Performing Laboratory: Eurofins Agrosience Services, Inc. (2014).

Always read and follow label and SDS directions.

To learn more, visit [www.mgk.com](http://www.mgk.com),  
call 1-800-645-6466 or send an  
e-mail to [brands@mgk.com](mailto:brands@mgk.com).



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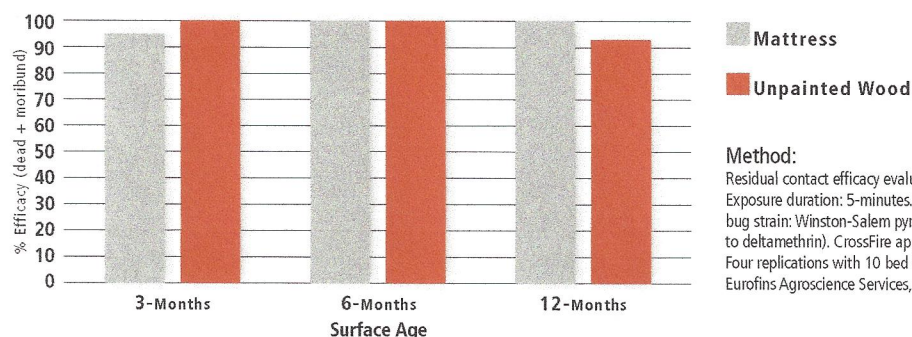
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