



SCOPE OF SERVICE:
**GERMAN COCKROACH
AND FLY CONTROL
IN COMMERCIAL FOOD FACILITIES**



Nisus
CORPORATION

100 Nisus Drive • Rockford, TN 37853 USA
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SCOPE OF SERVICE

FOR GERMAN COCKROACH AND FLY CONTROL IN COMMERCIAL FOOD FACILITIES

I. BASICS OF INTEGRATED PEST MANAGEMENT FOR FLIES

- A. Inspection of the structure interior and exterior
- B. Identification of cockroach and fly species
- C. Sanitation – critical inside and on the exterior
- D. Exclusion to prevent entry of flies from the outside
- E. Determination of a control program, equipment and product usage
- F. Setting up a fly control program involving management
- G. Monitoring, communication and follow-up



II. INSPECTION

Inspect the indoor area to determine where the pests may be developing. This includes areas that may contain moist organic food materials such as drains, cracks in the floor grout, cracks in walls or baseboard areas, under equipment, garbage receptacles and under bar areas. Extend your inspection outdoors to determine if pest populations are coming from dumpster areas or places where organic materials have been spilled. Determine if the facility is maintaining high sanitation levels and methods of control are in place and in working order. If it is a new account, review current programs with management and determine level of sanitation.



III. IDENTIFICATION OF FLY SPECIES

Common flies found in commercial food facilities include drain flies, red-eyed fruit flies, black fruit flies, phorid flies and houseflies.



Drain Fly
Psychodidae



Red-Eyed Fruit Fly
Drosophila melanogaster



Phorid Fly
Phoridae



House Fly
Musca domestica

IV. DETERMINATION OF A CONTROL PROGRAM, EQUIPMENT & PRODUCT

Setting up a Fly Control Program with Nisus Products.

Equipment needed:

- TrueTech™ Power Cart 2000 Sprayer, Foamer, Mister:

TrueTech spray, foam and misting equipment is designed to provide the pest management industry with maximum flexibility and effective application and treatment options. Applicators can choose from dry foam, wet foam and liquid spray applications with most units. Equipment is available as a portable hose-foaming unit as well as one-, two-, four- and seven-gallon units, some with utility carts and compressors.

- **Extended Wand:**

The specially designed treatment wand allows the applicator to stand while directing foam into the drain, or it can be used for spray applications into hard-to-reach areas.



- **Drain Foaming Tip:**

The foam tip is designed to allow foam to be directed into the drain.

- **Crack and Crevice Foaming Tip:**

This specially designed tip allows the foaming solution to be directed into cracks, crevices and hard-to-reach areas.

Note: Additional tips are included for direct spray applications.



- **Drain Cap:**

This cap fits over the drain opening to aid in forcing the foam solution deep into the drain.



Products needed (always refer to label directions before application):

- **Nibor-D® Insecticide:**

Nibor-D is a versatile borate compound formulated for use as a dust, liquid, foam or mopping solution. It is used as a crack, crevice, void, spot treatment and drain treatment. It controls small flies, flies, cockroaches, ants and other insects.

Nibor-D pail packaging includes a 1.6 oz. scoop.

For drains: 8 oz. packet (or 5 scoops) for a 5% solution

For other areas: Three 8 oz. packets (or 15 scoops) for a 15% solution

Nibor-D can be mixed in a separate container or added to the spray or foamer tank. If mixed in tank, make sure the solution is thoroughly mixed by stirring or shaking to get a uniform solution (approximately 4-5 minutes).

Important: Make sure tank, hoses and strainer filters are completely washed with water and cleaned of any residues at end of every work day or residues may clog hose lines and spray tips. Borate residues may show a stronger presence when mixing Nibor-D in water with a higher mineral content.

- **ProFoam® Platinum:**

ProFoam Platinum is a unique blend of foaming agents used with foaming equipment to aid in the transportation all types of products to remote areas



such as drains, wall voids, cracks and crevices and other areas. The foam is non-repellant and is Prop 65 exempt in California.

- **Bac-Azap®:**

Bac-Azap is not a control product, but rather a special blend of billions of microorganisms that work to consume organic matter in drains and in other areas. Bac-Azap is also well known for its odor control abilities. The microorganisms in Bac-Azap are uniquely formulated to work in conjunction with the Nibor-D control product when both are applied to drains.



Nibor-D Treatments for Cockroaches and Flies in Kitchen Environments

- ***Purpose of treatment:***

The treatment allows the Nibor-D to coat organic debris areas in which these pests may breed and develop. The Nibor-D will diffuse into the slime coating of the drain (the area where the cockroaches and fly larvae [maggots] are feeding) and contaminate their food source, making the food material toxic to the roaches and the fly larvae as they try to feed. This action kills the pests and stops the continuing life cycle that produces the adult fly populations. This treatment also applies to cracks and crevices in walls and tile grout where organic food particles may collect.



- ***Nibor-D Drain Treatment for Cockroaches and Flies:***

- ✓ Mix 2 ounces of ProFoam Platinum into the Nibor-D solution and pour solution into the TrueTech foaming device.
- ✓ Mix 8 ounces of Nibor-D by weight (one 8 oz. packet or 5 scoops) per gallon of water. Mix well to make certain all Nibor-D has dissolved into the solution. This creates a 5% solution as listed on the label for fly control into drains.
 - *Dry Foam:* 20:1 Ratio (20 parts foam to 1 part liquid) Example: 20 oz. foam and 1 oz. liquid
 - *Wet Foam:* 10:1 Ratio (10 parts foam to 1 part liquid) Example: 10 oz. foam and 1 oz. liquid



Note: Calibrate your foaming device so you know how much foam is being applied for a specific time. Test by applying foam into a measured container and time the application. (Example: Applying the foam into a pint container may take 5 seconds. You now know for every 5 seconds you will be applying one pint of foam into a drain or void area.)

- ✓ Attach hose to the "foaming" connection on the device. If device has a dry foam or wet foam option, select the foam option desired for your application. Wetter foam may work better in seldom used drain systems and dryer foam may work better in drains used often that have more moist environments.
- ✓ Select foam application tip. Use the larger tip for drains.
- ✓ *Drain Treatment:* Insert foaming tip into the drain grate and begin to foam. It is a good idea to use a drain cap in conjunction with the tip to force the foam deep into drain line. If foam begins to leak out around the cap, it may indicate the drain is clogged and needs cleaning. If you had previously calibrated the foaming time, you will know how much product you are applying into the drain.



The optional Air Line 50' extension hose allows technicians to separate the tank from the utility cart while still accessing the electric compressor.

Nibor-D with Nisus DSV™ for Faster Fly Kill:

Nibor-D can be combined with DSV to give a faster contact kill for flies in drains. Simply add 2 oz. of DSV to the Nibor-D solution. Add an additional 2-3 oz. of ProFoam Platinum to this solution to get the proper foaming ratio. The Nibor-D will continue to penetrate the organic layer in the drains to kill developing larvae.



Nibor-D Dusting:

Dust in cracks, crevices and void areas for cockroach control.

Nibor-D Liquid Application by Mopping Floors:

The same 5% Nibor-D solution can be used as a liquid mopping solution on kitchen floors for cockroach and small fly control. This solution will diffuse into the cracks in the grout where food materials and organic matter will accumulate, creating a toxic bait of that material that controls roaches and stops fly development. One quart of mopping liquid solution can also be poured into each drain.



Nibor-D 15% Solution for Control in Other Areas:

To control cockroaches and flies in other areas, a 15% Nibor-D solution can be used. In food areas, it is applied as a crack and crevice treatment only. (Refer to label for specific instructions.)

- ***Creating a 15% Nibor-D Foam Solution:***

First add 2-3 oz. of ProFoam Platinum to the solution. Then mix 1.5 lbs. by weight (three 8 oz. packets or 15 scoops) of Nibor-D per gallon of water. Mix and stir solution until all powder has dissolved.

- ***Foaming into cracks and crevices:***

A 15% solution of Nibor-D can be applied into cracks and crevices as foam to treat areas where small flies can develop or where roaches harbor. Dry (20:1) foam may be better in these areas to get back into the horizontal and vertical areas where the food material has been deposited. Again, the Nibor-D treatment will diffuse into this food material, creating a toxic food source for the developing larvae, and providing a long-term control measure for both roaches and flies. Remember, in food areas this is a crack and crevice treatment *only*, so any treatment material that stays on the surface and is not in the crack or crevice must be cleaned up.

- ***Foaming into wall voids, behind and under equipment.***

A 15% solution of Nibor-D can be applied into walls as foam for control of cockroaches and developing fly populations. Again, the Nibor-D will treat the food sources that allow the development of cockroach and fly populations.

Note: Nibor-D can also be used in conjunction with a contact emulsifiable insect adulticide.



- ***Foaming Garbage Cans and Dumpsters***

Cockroach and fly populations can develop in garbage receptacles such as trashcans and dumpsters. If not regularly cleaned or treated, these areas provide enormous potential for pest development in and around a commercial restaurant. Garbage cans should have plastic bag liners, but cockroaches and flies can develop in these cans indoors where organic debris and juices collect at the bottom of the container if the liners are ruptured. They can also inhabit the interior of outside dumpsters where they will feed and develop on the organic debris and liquids. From there, they can easily find access to the restaurant.

If garbage receptacles cannot be washed and cleaned on a regular basis, then a 15% solution foam or liquid treatment with Nibor-D can be used to treat and penetrate the organic food sources and create a toxic mix that will kill the developing population. For garbage cans, install plastic bag liners after the

foam has dissipated. The Nibor-D protection will remain until the receptacle is thoroughly washed out. Keep dumpsters away from buildings and not in a direct line out from doors and windows.

- *Wet Foaming or Liquid Treatment of Smaller Trash Receptacles:*

A 15% Nibor-D gallon solution can be mixed with 1-2 ounces of ProFoam Platinum to create a foaming treatment. This slightly wetter foam may be better to coat the sides and bottom of the receptacle. Only apply enough foam material to lightly coat the surfaces. A 15% liquid spray can also be used for this treatment.

Turn Their Mess Into Your Success

Using Nisus Corporation's Nibor-D and TrueTech equipment, pest management companies are now getting control in many food-service accounts where proper sanitization does not take place, the firm says.

Nisus says it can provide the tools and products to control the worst drain fly and cockroach problems. Even the tiniest food particles can support insect populations. Nisus' unique system allows PMPs to foam its special blend of products deep into drains, crack and crevices, effectively turning residual food particles into an insecticidal bait, helping to eliminate the toughest pest problems. This treatment provides powerful protection from pests and complements the facility's sanitation procedures, Nisus reports.

How well does it work? Darrell Bush with Bush Pest Control was called in when the commercial kitchen of a 364-bed facility was facing shutdown by the health department because of an overwhelming small fly problem. Bush explained the protocol to the health inspector who allowed the facility to remain open pending treatment. The treatment was done that evening and the problem was solved. The health inspection conducted the following week found zero flies.



Darrell Bush, Bush Pest Control

Nisus says it wants PMPs to give them their toughest challenge and they'll help them get control of cockroaches and small flies.

Learn more at www.nisuscorp.com.

NIBOR-D®

One word...versatility.

POWERFUL PEST CONTROL.

Nibor-D is a versatile borate powder that can be used as a dust, applied liquid, foam or mop solution. It can be applied both indoors and outdoors as a crack, crevice, void and spot treatment as well as used in drains, sewers, attic insulation and many other locations.



The versatility of Nibor-D gives PMPs a single multipurpose tool capable of several application types in many situations to control a wide variety of pests.

- Listed pests include ants, cockroaches, crickets, cluster flies, fruit & drain flies, fleas, dust mites, lady bugs, bird & poultry pests (darkling beetles, hide beetles), millipedes, earwigs, silverfish, mildew & fungus* and wood destroying pests (misc. beetles & borers, decay fungi).
- Broad spectrum insecticide and fungicide.
- Use as a dust, liquid or foam application in many areas, including:
 - Dust in cracks, crevices and void areas for listed insect control
 - Liquid or foam for residual control into cracks, crevices, void and spot applications
 - Liquid broadcast for flea larvae and dust mites
 - Mop solution for control of small flies, cockroaches and ants
 - Floor drains, manhole covers & cavities, sewers and refuse containers
 - Attic insulation
 - Bird & poultry facilities
 - Surface mildew and fungus
- For both interior and exterior use.
- No known insect resistance.

*Not labeled for mildew and fungus in California.

Visit www.nisuscorp.com for the complete line of pest products.

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Nisus
CORPORATION

Smart Pest Control Solutions

PROFOAM[®]

PLATINUM

With the handy squeeze & pour quart
NOTHING ELSE STACKS UP.



ProFoam Platinum is a unique blend of foaming agents offering treatment capabilities by transporting all types of products to remote areas such as wall voids, ground voids, drains and other voids needing complete treatment of all surface areas. This product can added to soil termiticides, borates or drain cleaning agents to create a foam for treatment requirements. Not Prop 65 listed in California.

Mix ProFoam Platinum with any pesticide where foaming applications improve performance or coverage of the pesticide. Perfect for use with TrueTech[®] or any foaming equipment.

- ProFoam Platinum is the highest quality foam.
- Labeled for broad use; compatible with all insecticides tested on the market.
- Non-repellent and non-ionic formula – less corrosive than ionic formulas on the market.
- pH balanced.
- Ideal for use in remote areas as well as in vertical and horizontal spaces including wall voids, tunnels, ground voids and drains.
- Handy squeeze & pour quart container allows for easy measurement of one ounce at a time.
- Perfect for sensitive environments such as food establishments.
- Can be used for all your foaming applications.
 - Add to soil termiticides to create a foam solution for areas such as under slabs on dirt-filled porches to treat the void underneath.
 - Add to borate products to create a foam to treat wall void areas in a structure.
 - Add to drain cleaning products to create foam to provide better coverage of interior pipe surfaces.

Visit www.nisuscorp.com for the complete line of smart products.


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Smart Pest Control Solutions



ACCESSORY LIST

P/N	Part Description	Ref. Images
100823	TrueTech TT - 48 Drain Covers	
100826	TrueTech TT - 111 Air Line 50' Yellow with Brass Quick Disconnect Fittings For use only with TT2000 Power Cart.	
100830	TrueTech TT - 105 Slab Rod Assembly (Complete)	

See your Distributor to order TrueTech™ equipment and accessories.

TRUETECH®

SPRAYERS • FOAMERS • MISTERS

DRAIN FOAMING: MIXING INSTRUCTIONS FOR DRY FOAM

Use on visits 1 & 4. Creates residual bait & disinfects.	Water	ProFoam	Nibor-D (5%)	DSV*
	1 gal.	approx. 7 oz.	one 8 oz packet (or 5 scoops)	2 oz.
Use on visits 2 & 3. Creates residual bait & reduces buildup.	Water	ProFoam	Nibor-D (5%)	Bac-Azap
	3/4 gal.	2 oz.	one 8 oz packet (or 5 scoops)	1 qt.
Kills pests & creates residual bait.	Water	ProFoam	Nibor-D (5%)	
	1 gal.	2 oz.	one 8 oz packet (or 5 scoops)	
Disinfects & sanitizes. Controls small flies in drains. Small fly ovicidal treatment.	Water	ProFoam		DSV*
	1 gal.	approx. 4 oz.		2 oz.
Reduces buildup.	Water	ProFoam		Bac-Azap
	3/4 gal.	1 oz.		1 qt.

NOTE: Make sure the check screen has been removed when foaming. The TrueTech 2000 Power Cart will dispense a gallon of these solutions in approximately 10 minutes, producing 20 gallons of foam at a 20:1 expansion ratio. When using an IRI, add up to 12 oz. of ProFoam Platinum.

*DSV creates a slight de-foaming action. Gradually add ProFoam up to the recommended amount until you achieve the correct consistency.

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TRUETECH®

SPRAYERS • FOAMERS • MISTERS

DRAIN MAINTENANCE PROTOCOL



First Visit

1. Spray Nisus DSV™ solution directly into the drains.
2. Clean out gross soils and clean drains with a drain brush (dip or spray drain brush with DSV solution while cleaning).
3. Foam drains with Nibor-D®, DSV and ProFoam® Platinum solution.

Second Visit

1. Inspect drains for build-up and clean if necessary using brush dipped in DSV solution.
2. Foam drains with Nibor-D, Bac-Azap® & ProFoam.

Third Visit

1. Foam Drains with Nibor-D, Bac-Azap & ProFoam.

Fourth Visit

1. Inspect drains for build-up and clean if necessary using brush dipped in DSV solution.
2. Foam Drains with Nibor-D, DSV & ProFoam.

Repeat pattern on weekly or monthly service.



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Visit
www.nisus.tv
to view videos about:

- Small Fly Treatments with Nibor-D and TrueTech
- Boric Acid vs. Nibor-D (DOT): Dissolving in Water
- ProFoam Squeeze Pour
- Introducing Nibor-D 8 oz. Packets



Sustainable Pest Solutions

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