**Why Effective Bird Control is Important**

More than 60 transmissible diseases borne of which are fatal are carried and transmitted by birds to humans. For example:

- **Histoplasmosis** is a respiratory disease that may be fatal. It results from a fungus growing in dried bird droppings.
- **Cryptococcosis** is caused by a yeast found in the intestinal tract of pigeons and starlings. The illness often begins in humans as a pulmonary disease and may later affect the central nervous system. Sinaic attics, ledges, schools, offices, warehouses, mills, barns, park buildings, signs, etc. are typical roosting and nesting sites, the fungus is apt to be found in these areas.

**Methods of Bird Control**

- **ST. LOUIS ENCEPHALITIS**, an inflammation of the nervous system, usually causes drowsiness, headache and fever. It may even result in paralysis, coma or death. St. Louis encephalitis occurs in all age groups, but is especially fatal to persons over age 60. The disease is spread by mosquitoes which have fed on infected house sparrows, and pigeons carrying St. Louis encephalitis.
- **Salmonellosis** often occurs as "food poisoning." The disease bacteria are found in bird droppings; dust from droppings can be sucked through ventilators and air conditioners, contaminating food and cooking surfaces in restaurants, homes and food processing plants.
- Besides being direct carriers of disease, nuisance birds are frequently associated with over 50 kinds of ectoparasites, which can work their way throughout structures to infest and bite humans. About two-thirds of these pests may be detrimental to the general health and well-being of humans and domestic animals. The rest are considered nuisance or incidental pests.

A few examples of ectoparasites include:

- **BED BUGS** (Cimex lectularius) may consume up to five times their own weight in blood drawn from hosts which include humans and some domestic animals. In an extreme condition, victims may become weak and anemic. Nuisance birds are known to carry bed bugs.
- **Chicken Mites** (Dermanyssus gallinae) are known carriers of encephalitis and may also cause fever, mild dermatitis and anemia. While they subsist on blood drawn from a variety of birds, they may also attack humans. Nuisance birds are known carriers.
- **Yellow Mealworms** (Tenebrio molitor), perhaps the most common beetle parasites of people in the United States, live in pigeon nests. It is found in grain or grain products, often winding up in breakfast cereals, and may cause intestinal cannibalism and hymenolepiasis.

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**ESTIMATE SHEET**

Name ___________________________

Date ___________________________

Address _________________________

Phone ___________________________

City _____________________________

Fax _____________________________

State ____________________________

Zip ______________________________

Buyer ____________________________

Job Location ___________________________

Proposed Treatment Area (See reverse for helpful diagrams)

<table>
<thead>
<tr>
<th>Running Feet</th>
<th>Number of Cartridges</th>
<th>Treatment Area Time (in hours)</th>
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<tr>
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Number of Cartridges ___________________________ @ $ __________ each

**Estimated Costs**

<table>
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<tbody>
<tr>
<td>Rental Equipment</td>
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<tr>
<td>Material</td>
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<td>Labor</td>
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<td>Subtotal</td>
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<td>Tax</td>
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<td>TOTAL</td>
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</tbody>
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**INSURANCE:** Worker's Compensation, Public Liability and Property Damage. *See contact for additional information.*

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*ST. LOUIS is a trademark of J.L. Cain & Co., Inc.*

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Bird Control International Inc., Mentor, OH 44060

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4 THE BIRDS® liquid should be applied as a continuous layer over the entire top face of the structure being treated. For larger birds, i.e., storks, more than one application may be necessary to create a thick enough layer for the repellent to be completely effective.

4 THE BIRDS® liquid may be removed from structural surfaces with mineral spirits, naphtha, or powder type cleaning agents. Spills may be washed off with water if immediate application equipment should be cleaned with mineral spirits immediately after each use.

FOR EXTERIOR USE

Trees, bushes, shrubs and vines may be treated effectively. 4 THE BIRDS® liquid should be applied to the point of runoff to the top of all branches large enough to support a bird. Again, cover or otherwise protect any plants that may be treated to avoid spray drift and runoff causing damage.

Do not dilute 4 THE BIRDS® liquid, use as is thereafter mixing or shaking. Any spray equipment may be used for application with generated pressure up to 150 p.s.i. Aerial application is permitted. It is recommended that treatment to trees, bushes and shrubs be made in the fall or early spring when limbs are bare and easily accessible. Application in foliage may result in the blocking of respiration and death of the branch or limb might occur. In severe cases the whole plant may die.

4 THE BIRDS® contains no toxic materials to plants or animals, but the gel contains physically block and prevent respiration, therefore remember that birds regularly used trees, shrubs, bushes, etc. and need to be cut down to the moss is the best way.

Spraying should be done when temperatures are above 50°F to facilitate drying, and during calm winds to minimize spray drift. Use a teabag to cover areas where drift and overspray may land.

How to Calculate Your Needs of 4 THE BIRDS® Liquid

The amount of 4 THE BIRDS® you can expect is dependent on the object being treated and the spray equipment used. Generally one gallon of 4 THE BIRDS® will treat an average tree with a 5” diameter trunk or approximately 6,000 square feet of surface. One gallon will also cover approximately 25 square feet of surface. The approximation should be used only as a guideline.

4 THE BIRDS® liquid may be removed with mineral spirits, naphtha or powder type cleaning agents. Spray equipment should be cleaned with mineral spirits immediately after use.

Some Safety Hints

Although it has been suggested previously, it cannot be emphasized too strongly that safety of the personnel actually applying the repellent is of utmost importance.

- While 1200 feet of 28/4 No. 1 manila rope is recommended for use as a safety line or to secure or hostelter extensions, Manila rope is highly recommended because other types may stretch.
- Corrosion hitches are also helpful; they should have a 24" gap from tip of hook to shank.
- Use a leakproof container in tandem with a block and tackle and a corrosion hook for applications where ladders are impractical.
- "Cherry Pickers," in heights from 40 feet to 130 feet, or swing stages, are frequently used in places inaccessible to ladders or for treating wide areas.
- Two kinds of scaffolding are available, where there are level lots, rolling scaffolds are ideal for treating indoor locations such as kitchens, etc., and for up and down movement, power scaffolds which can be erected to any desired height are helpful. To make application safer and faster for your personnel, obtain the following equipment from a safety supplier:
  - Respirators, rubber or other non-toxic material gloves, non-slip soled shoes, hard hats, safety glasses or goggles, wire brushes, gloves, brooms, and paint sprayers. Shells, while white or silicone coated, should also be kept on hand. Allowing porous surfaces prior to application. Mineral spirits will be required for cleanup.
  - Be sure that your personnel (or those of the outside contractor) if the job is being done in that manner) are adequately insured or covered by Workers’ Compensation.
- On occasion, it may be advisable to hire steeplejacks, roofers, window washers, ironworkers, painters, firemen, etc. to perform some of the application work on very high locations such as steeples and bell tower ridges.

What is "4 THE BIRDS® Bird Repellent-Gel"

4 THE BIRDS® is a transparent compound which is used to place drops on pigeons and starlings next, roof or nest.

4 THE BIRDS® contains polymers which is used in chewing gum, surgical bandages and plastic and will not hill birds when used according to package directions.

Also, because of its unique chemical formulation, 4 THE BIRDS® will retain its effectiveness for several months under most weather conditions.

Therefore, birds learn to avoid areas treated with 4 THE BIRDS®, seek new areas for roosting.

How and Where to Use 4 THE BIRDS® Gel

4 THE BIRDS® gel bird repellent is applied with a caulking gun. Before inserting a cartridge of 4 THE BIRDS®, remove the caulking gun carriageway, insert the new 1/2" of the plastic spout to a tape. Leave the tip out for 30 seconds and press down on the cap. Punche the seal inside the cap. Always remember to replace the cap on the tip of any partially filled tube.

To apply 4 THE BIRDS®, keep the tapered, flat section of the cartridge spout upmost, but rather lightly on the surface to be treated. Do not apply to the caulkings gun slowly towards you while applying steady pressure on the trigger during the full distance of travel.

Wider surfaces, apply three beads, with the third bead located about 2" in from the second bead located about 2" from the first, 15" from the outside edge.

- BALCONIES - Where the tops of railings require bird-proofing, first the railing by covering with baffle design, then apply 4 THE BIRDS® over the tape. Also treat faces of balconies below to 1" in from the outside edge. Be sure to caulk any voids or small areas of treated areas. Remove the tape from the railing after the birds no longer return to the areas and remove any adhesive residue left by tape.

- MONUMENTS AND OTHER CURVED SURFACES - Apply where birds have been roosting or are likely to roost. Use caution as dust will gather on gel. Clean surface after using with proper methods to prevent damage to monuments and monument surfaces.

- CHIMNEYS - Apply 4 THE BIRDS® along the outside edge of the chimney cap and along the flashing where the chimney joins the rest of the structure. Birds nest at the warmest and shade. On the chimney cap, apply a single bead 1" in from the outside edge.

- GUTTERS, GUTTER BOXES, DOWNSPOUTS - When birds nest in these areas, they clog the natural flow of water. This often results in expensive roof and interior water damage.

JT EATON 4 THE BIRDS® liquid may be mixed with mineral spirits, naphtha or powder type cleaning agents.

Some Final Words Of Advice

- Use mineral spirits to clean equipment immediately after application has been completed.
- Leave a 1" break in the beads (stripes) at least 1200 feet to allow for drainage (where necessary). In areas of excess rainfall, breaks can be as wide as 18" apart.
- Under most weather conditions, treatment of 4 THE BIRDS® will last several months. Areas of heavy bird concentration may require additional applications.
- Wear rubber or other non-porous material gloves when removing dead birds, nests or droppings from application sites. Birds, nests, etc. should be picked up in plastic bags for proper disposal.
- To help guard against bird-related diseases, it is recommended that a safety supply house should supply when cleaning the areas to be treated.
- Before applying 4 THE BIRDS®, inspect the complete structure for roosting areas not obvious from usual vantage points.
- Be aware of secondary pests such as mice, fleas, bird bugs, bed bugs, etc. while working in nesting and roosting areas. These pests can migrate inside the structure once birds are removed.
- If you have any questions about additional uses of 4 THE BIRDS®, do not hesitate to write or phone.
- Our staff will gladly consider your information in future 4 THE BIRDS® publications.

When estimating a job consider a tube of 4 THE BIRDS® gel is good for to 100 feet. Walk around premises to count number of locations and do a job estimate. This will also give you a rough estimate of roof area, which will help in estimating how much 4 THE BIRDS® you will need. You can also see if you will require any special equipment. (i.e. "cherry pickers," scaffolds, special ladders, etc) with this information you will be able to give a more accurate estimate for the application of 4 THE BIRDS® gel bird repellent.

This technique provides a solid bead of 4 THE BIRDS® repellent approximately 1/10" wide and ensures satisfactory results.

Do not waste 4 THE BIRDS® with high application rates, instead, be systematic.

In Memory

4 THE BIRDS® liquid is removed through use and evaporation.
Inches wide, apply 4 THE BIRDS® in two parallel beads 2” apart, beginning approximately 1” in from the outside edge; on under parapets, apply three beads 2” apart, beginning 1” in from the outside edge.

To calculate the amount of 4 THE BIRDS® required to treat an area, measure the linear footage from one end of the sign to the other, and multiply by three for estimating purposes. Don’t forget to add roost, pines, or structural steel frameworks that support the letters for applying 4 THE BIRDS®.

SPECIFIC APPLICATIONS

SPECIAL INDOOR APPLICATIONS: Follow the suggestions listed on the previous pages to apply 4 THE BIRDS® on natural roosting areas such as interior beams, conduits, lamp fixtures, pipes, etc., wherever birds are roosting.

BEAMS, BRACES & STRUCTURAL STEELS: Structural steel appears in many indoor and outdoor locations including aircraft hangars, loading docks, amusement park decks, race track decks, plant interiors, etc. Birds frequently roost in these areas.

Applicators may, in some instances, may need to apply 4 THE BIRDS® using suitable equipment like movable cranes, lift hoists and ladders. Use the caulking gun to lay as many beads (strips) as necessary.

When treating b-beams, apply 4 THE BIRDS® to all four faces in areas of high bird concentration. The actual number of beads of 4 THE BIRDS® required will be determined by the severity of the bird problem.

Apply a single continuous bead along each inside lip of structural steel or release nests and nuisance bird problems are not intense; otherwise, lay additional beads of 4 THE BIRDS®. When applying 4 THE BIRDS® to 1/2” openings adjacent 1” in from the outside edge of the cap and all areas adjacent to it, wherever evidence of birds is found. Remember, besides being functional, columns and caps are often designed to be attractive; therefore, neatness and attention to detail is both important considerations.

Cleaning or power washing these areas prior to application will result in better application. Avoid applying gel close to edges to avoid possible run-off, remove gel and clean surfaces once birds are no longer present.

What is 4 THE BIRDS® Bird Repellent Liquid

4 THE BIRDS® liquid is a similar product to 4 THE BIRDS® gel. Although it is an opaque white material when first applied it rapidly dries to a transparent colorless film. This liquid formulation of 4 THE BIRDS® may be sprayed or painted on to various surfaces giving broad coverage compared to the beads resulting from use of the gel.

Surface Preparation for 4 THE BIRDS® Liquid

Clean surfaces to be treated to promote adhesion of this repellent. Wire or scrape all dust, dirt, droppings or other loose debris from surfaces. Seal porous surfaces prior to treatment by applying one coat (spray on or brush on) of shellac or a 50% solution of white glue and water and allow to dry. Use proper safety equipment, including gloves and respirators.

DO NOT APPLY 4 THE BIRDS® LIQUID to the Exterior of Buildings or Structures.

How and Where to Use 4 THE BIRDS® Liquid

4 THE BIRDS® liquid may be brushed on to the top surface to be treated or applied by sprayer. Hand pampered sprayers or mechanical equipment may be used with a discharge pressure of 40 to 50 psi.

Do not dilute the liquid. The solution should be thoroughly shaken or mixed prior to use and the surfaces to be treated must be clean, free of dust and dry.

For interior use, beams, girders, struts, supports, pipes, etc., and anywhere birds may land or roost can be treated.