

Bird Mitigation Solution

using EkoCube's BD-135 bird deterrent

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A.L. Distributing, LLC



Frequent Pain Points

- Bird droppings are both unhealthy and unsightly
- Damage to assets due to acidic bird waste
- Repetitive and expensive cleaning of equipment
- Repetitive cleaning of boats, RV's, golf carts and the like
- Aggressive bird encounters / chases while working, walking, golfing, etc.
- Dangerous bird strikes on aircraft
- Hassel with Federal Depredation Permits & other compliance paperwork
- Inconvenient & costly power outages due to birds in electric sub-stations
- Diminished harvests due to crop damage
- Outdoor dinning plagued by aggressive birds
- Expensive or previously failed mitigation methods
- Need for non-lethal and eco-friendly “green” methods to work with protected species



Current Methods

- **Physical Deterrent:** Birds will eventually ignore decoys, auto-loop predator calls, sound bursts and flashing objects.
- **Lasers:** Careful placement required to avoid eye injuries.
- **Netting:** Nets frequently traps birds unintentionally.
- **Culling Flocks:** Poisoning, shooting and egg addling require clean-up and/or extra reporting. Poisons like Avitrol are slow to kill and cause public relations challenges.
- **Electronic Methods:** Electric wire and mechanical methods need power runs or batteries that require replacement. No coverage during power outages.
- **Chemical Deterrents:** Foggers require hazmat suits for application and have a short duration. Spray systems affect small areas, require special handling. Safety and spillage are a concern. Spillage is costly.



EkoCube Solution

- EkoCube's BD-135 releases an aroma that is annoying to birds, not humans
- BD-135's scent irritates the trigeminal nerve, causing birds to relocate
- EkoCube is an effective deterrent to all oviparous (egg laying) species
- Simply place the product near bird roosting areas and let EkoCube do the work
- Within five days of installation, birds will voluntarily leave the area

The EkoCube BD-135 Mitigation System is a natural, non-toxic method to relocate bird habitats. Easy on birds, easy on the planet, and easy on the budget.



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EkoCube Solution

- EkoCube's BD-135 Bird Mitigation/Relocation System is EPA certified
- BD-135 is non-toxic and made from food grade ingredients
- All ingredients on the FDA GRAS (Generally Regarded as Safe) list
- All ingredients on AFFCO (American Association of Feed Control Officials) safe list
- EkoCube's BD-135 biodegrades into mostly grain*



Available in 6 oz. cotton pouches with pull string filled with granular BD-135.
* Product and pouches decompose in approx.1 year.



Available in a 1"x2" diameter semi-solid puck (affectionately called the "cube") placed in a green plastic mesh net.
* Cubes decompose in approx.1 year. Plastic netting is not biodegradable.



Granular mix available in 25 pound bags.
* Product decomposes in approx.1 year.



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Application Options

- **Pouches:** Space 4 feet apart, lasts approx. 4-6 weeks
Initially used to move the flock, the increased surface area allows the aroma to be emitted more robustly. Hang near bird roosting areas.
- **Cubes:** Space 4-8 feet apart, lasts approx. 3 months
The work horse of the system, cubes are the most cost effective for maintenance. After 6 weeks, initial pouches have expired. Remove pouches and replace with cubes, keeping the 4 foot spacing. After 3 months, remove expired cubes. Move installation method to 8-foot spacing and replace with fresh cubes. From this point forward, keep spacing at 8 feet. After 3 months, replace with fresh cubes.
- **Bulk Granular:** 25 lb. bag covers 3,000-4,000 sq.ft., lasts approx. 3-4 weeks
Granular mix can be spread using a broadcast spreader where pouch or cube placements are limited. With an increased surface area, granules can cover greater distances. However, the product can be washed away in a heavy rain storm.



Tips and Tricks

- It takes time to retrain birds; 3-5 days or longer, depending on the size of the flock and how long they have been living there.
- You may see birds from time to time. If the product is being used correctly, birds will not stay long and they will not roost or nest. BD-135 is not a force field.
- It's better to use too much product in the beginning than too little. It takes a while for birds to change their habits, but once they're gone, maintenance is easy. Using too little product can cause birds to build up a tolerance. If that happens, more product, time, and money will be needed to achieve the desired outcome.
- Success depends on using the right amount of product, for the right size flock, placed in the right zones, for the right length of time. We are happy to help you!



BD-135 PRODUCT INSTALLATION GUIDE



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Prep the Area

- Prep work is key for a successful install
- Area must be free from all nests & droppings. Power washing will help
- If any nests or droppings remain, some birds will stay & new birds will appear, developing a tolerance to BD-135
- Overcoming this tolerance will require several months of increased treatment that could become costly
- A successful install will yield results in 5 days or less

Place Product

- Initially use pouches: 2 oz. cotton sack filled with granular product. Strong & fast acting
- Purpose: Train birds to roost and nest in new habitats away from your assets
- Primary install: place pouches 4-5 feet apart
- Subsequent installs: 5-8 feet apart
- Duration: 6 weeks
- Secure with hooks, nails, zip ties, staples, caulk, etc. that can hold 6 oz. (if not secured, birds will move pouches)
- When placing, consider wind direction and strength

Maintain the Area

- Switch to cubes: 2" diameter x 1" thick, viscous cube in a mesh bag
- Purpose: Keep birds safe in their new habitat, away from your assets
- Primary Install: Remove pouches and replace with cubes 4-5 feet apart
- Subsequent installs: 5-8 feet apart
- Secure with hooks, nails, zip ties, staples, caulk, etc. that can hold 6 oz. (if not secured, birds will move/remove cubes)
- Duration: 3 months
- Replace product promptly every 3 months. Lapses allow birds to return, starting "prep & pouch" cycle over again
- If birds return, a tolerance to BD-135 usually develops. This requires more time and product to achieve desired results

Plan Ahead

- Anticipate flock movement
- Purpose: keep birds and equipment safe, creating a sanitary environment for business
- Example: Garage Bay #1 installed product and birds moved to Bay #2
- Solution: Anticipate flock movement and place product in both Bay #1 and Bay #2 at the same time
- Freshness of cubes can not be determined by smell. Inactive ingredients retain their aroma but active ingredients do not.
- To maintain results, replace old cubes with fresh cubes every 3 months, regardless of smell

*** Consult state & federal regulations for identification of protected species

**SAFETY
FIRST**

Gloves and eye protection recommended. Product can become sticky in warm weather. Garlic is a known eye irritant. Wash hands immediately after each use.



Deployment Locations

- **Industrial:** Equipment sheds, equipment, docks, buildings, outdoor break areas, signage, warehouses, walkways
- **Commercial:** Airports, hotels, golf courses, marinas, restaurants/cafes, parking garages, rental car lots, stadiums, convention centers, strip malls, shopping centers, commercial buildings, gas stations, banks, medical buildings/urgent care, hospitals, construction sites, amusement parks.
- **Utilities:** Gas, water, sewer, and electric companies
- **Municipal:** Local, state, and federal buildings, parks, pools, historic sites, schools, businesses, military bases and U.S. boat yards, hospitals, public transportation depots, landfills, recycling centers.
- **Agricultural:** Crops, orchards, vineyards, feed and water troughs, barns, equipment sheds, and horse stables to protect saddles, blankets and tack.



Testimonials

“We began using the product in August and have expanded installations beyond the arrival canopy. To date, we have now installed 300 pouches and could not be happier with the product. No birds where we installed it.”

Kevin Meinenger
Grounds Operations Manager,
Myrtle Beach International Airport
March 2020

“Generations of pigeons were roosting and raising their young in several of our substations. Their presence, along with their droppings, made routine maintenance a health hazard. These birds needed to be relocated and without harm. We discovered EkoCube and deployed it according to instructions. All birds willingly left the area within three days. We are very encouraged by the product’s results.”

Drew Zmolek
Director of Emerging Technology and Innovation, Exelon
June 2018



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