



Optical Gel
BIRD DETERRENT

***Bird Fend Optical Gel
Bird Deterrent***

Installation manual



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Bird Fend Optical Gel has been approved for use by the APVMA on feral pigeons, starlings and myna birds since 2019, and has recently been approved for use on swallows. Bird Fend has been successfully installed in domestic and commercial areas, mine sites and council waste facilities. Bird Fend Optical Gel has remained effective even in heavily polluted areas. The gel will withstand high and low temperatures, remaining stable in exposed conditions. Bird Fend Optical Gel has proved effective at preventing these birds from returning to long-standing nesting sites (high pressure), as well as at medium- and low-pressure sites. As explained below, the dishes of optical gel must be fitted at spacing's commensurate with the pressure.

Successful bird management is only as good as the products and procedures applied by the installer. Before installing Bird Fend Optical gel some key factors must first be considered.

Correct identification of the pest bird species, and situation where relief from the birds are required. This will ensure correct methods are utilised, which may actually exclude the use of Bird Fend Optical Gel. This may be due to factors where the gel may become covered or damaged either directly or indirectly, in turn causing the gel to become ineffective.

Where the site is considered favourable for Bird Fend Optical Gel this manual will provide guidance in the correct installation procedures and should be followed as outlined below.

After the site has been chosen, ensure a risk management and procedure plan has been put in place to cover factors such as working at heights, correct PPE and personnel management. By following this installation manual correctly, it will ensure successful bird control utilizing Bird Fend Optical Gel, and may provide options for situations which may not have achieved before!

Preparation of the site prior to application of *Bird Fend Optical Gel*

All nests within the vicinity **MUST** first be removed and area cleaned with Bird Free Heavy Duty RTU Bird Dropping Cleaner, even if these nests are not where the gels are to be installed.

The actual site where the birds are causing an issue, roosting and landing, may be used as a lookout area where the adjacent nests are being monitored, for this reason though site inspection must be carried out and all nesting sites identified and removed prior to installation.

If this is a nesting site, follow instructions below.

It is essential to clean the application site of all nests, faeces and other organic debris before *Bird Fend Optical Gel* is applied. We strongly recommend using the Bird Fend cleaning products to not only clean but also sanitise the area before application. Care must be taken when dealing with nesting sites as outlined below.

Follow all instructions on the bottle used.

Failure to do so will compromise efficacy!

Routine cleaning of droppings where there are no nests or major accumulation of faeces (e.g. from window sills) can be done, after wetting down with cleaner, with scrapers and wire brushes. Simple precautions to reduce direct contact with droppings, such as wearing disposable gloves, dust masks and clothes that can be washed, should be taken.

When cleaning long-standing nesting or night roosting sites where there is a major accumulation of faeces, full PPE, including masks, should be worn. Precautions should be taken to ensure that members of the public are not exposed to airborne dust or other debris. Surfaces should be wetted with appropriate Bird Fend Cleaner where faeces are present to limit generation of airborne dust and aerosol mists during cleaning. If a pressure washer is used, dust and aerosol control measures, such as containing the area with plastic sheeting, should be taken, alternatively the wetted faeces and debris can be removed with a shovel. The wet material should be collected in heavy-duty plastic bags, or some other type of secure container, and discarded with rubbish.

Bird faeces, especially pigeon, contain many harmful pathogens that can lead to serious health issues if inhaled or exposed to contact. Wash your hands and clean any exposed skin before eating, drinking or putting your hands near your mouth.

Bird Fend Optical Gel is supplied in ready to use dishes.

There are three Bird fend dish types.

- Standard dish
- Magnetic dish
- Swallow dish, standard dish with perforated lid.



Box of 15 Standard dish



Box of 15 Magnetic dish



Box of 15 Swallow dish

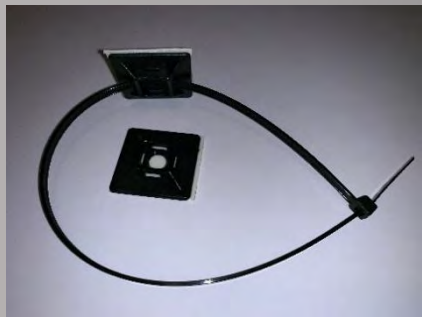
Fixing the dishes of Bird Fend Optical Gel, (excluding swallows, see below)

Remove covers from dishes and affix dishes to dry surfaces, in accordance with spacing guidelines below, with silicone or other removable adhesive.

For metal surfaces the use of the magnetic dishes is recommended for ease and efficient installation.

The gels can be fixed to most other irregular surfaces, such as pipe work and thin signs with the aid of Bird Fend clips and bases.

Bird Fend Cable Tie Bases



Bird Fend Sign clips



Spacing of optical gel dishes for feral pigeons:

General guidelines to spacing of dishes for feral pigeons are as follows (all spacings are centre to centre):

Low pressure (day roosts): 250mm

Medium pressure (night roosts): 200mm

High pressure (nesting sites): 150mm

Low pressure examples

To stop pigeons from sitting on the front of a ledge (perhaps one overlooking a food source) and fouling below, one row of dishes should be fitted with silicone at 250mm centres after proper cleaning. If the birds are sitting on the leading edge the dishes can be fitted 20mm behind the leading edge so that they are near invisible from below. Dishes should be fitted end to end into corners.



If the ledge is more than 250mm deep, and there is nesting/night roosting in the immediate vicinity of the ledge, two rows of dishes should be applied. Dishes should always be fitted right into the corners of the ledge as birds favour the sheltered corners, then the gels should be installed in a staggered pattern.



Low/medium pressure examples

In the example shown below, myna birds and starlings were night roosting on the higher sections of the rafters and day roosting on the lower parts, as well as on this tv screen causing a mess.



Medium/high pressure examples

The areas were first cleaned. Dishes of *Bird Fend* were then fitted at 200mm centre to centre, as well as wires utilising the Bird Fend cable tie bases (below left). It is always recommended treating all accessible areas above the targeted area to prevent possible soiling from above.



Medium/high pressure examples

For nesting/night roosting sites, spacing of dishes is 150mm for nests (below left), 200mm for night roosts (below right).



High pressure examples

Where nests are removed the dishes should be fixed at no more than 150mm centres, this is for all bird species. Skimping on the number of dishes is a false economy. If the birds are not prevented from returning to nests the whole job will be compromised. Be aware that stubborn birds may try to return to the nesting site for the first few days, follow up visits may be required and some adjustment to installation. Be patient and inform client this is normal, after a few days the birds will give up and move on.



Swallow Installation Method

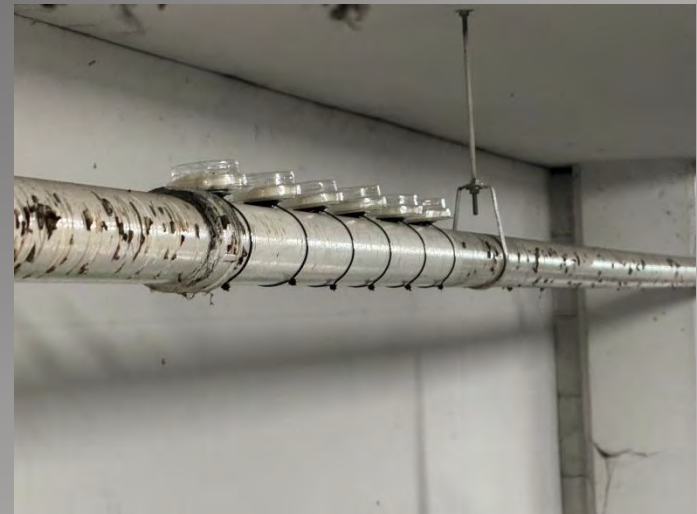
When using Bird Fend for swallow control, there are some additional key steps that must be followed. Before installation cleaning of the area as above must be done.

It is essential that the standard dish lid be replaced with the perforated lid, (lid with holes). Spacing of the dishes must NOT exceed 150mm centre to centre at all times. When installing in heavily populated areas, ie underground car parks, it is recommended installing small sections at a time, starting in the darkest areas first. Be aware that stubborn birds may try to return to any nesting sites for the first few days, follow up visits may be required and some adjustment to installation may be required.



Swallow site using cable tie mounts

Dishes spaced at 150mm centre to centre. Starting at the highest/darkest areas.



Inaccessible sites

With any bird control treatment, it is essential to prevent the birds from returning to their nesting sites. The nesting site itself must be treated. Applying *Bird Fend Optical Gel* around the periphery of a nesting site which has not been treated will not deter birds from returning to untreated nests. If the nesting site is inaccessible it will need to be blocked off.



Bird Fend stops pigeons and starlings in council wash down bay. (top pictures)
Bird Fend stops pigeons, starlings and mynah birds where ever placed.



Bird Fend stops pigeons from roosting on open window ledges (below left).

Bird Fend keeps on working years after installation, even in the harshest environment (below right).



Summary

Bird Fend Optical Gel is a unique bird repellent product that may solve problems where traditional methods may not have worked or are unsightly.

In conjunction with this manual, it is important to assess the site, think about how to utilize the gels and correctly inform the client of what is expected from the installation.

Providing the installer understands how the product works, what is to be expected from the gel and how the gel is to be correctly installed, Bird Fend Optical Gel can be a powerful tool for any bird management situation.

We recommend regularly checking our website, www.birdfend.com.au, for updates and product information.