

Bird Free Fire Gel - Case Studies

There are a wide range of case studies to draw on which demonstrate the effectiveness of Bird Free Fire Gel and why it is used by so many Governments and large companies. Below is a brief introduction to some of the case studies documented on the Insight Security website;

Airports and Aviation Applications

From hangars to terminal buildings and pedestrian walkways, birds present a major problem at airports around the world...

Incheon International Airport is the largest airport in South Korea and the primary airport serving the capital city Seoul. Opened for business in 2001 it is one of the largest and busiest airports in the world and from 2006 to 2008, it was rated the best airport in the world by the Airports Council International

The Problem: Pigeon droppings were causing discoloration of the paint and corrosion of the I-beams of the airport terminal buildings ...and also causing fouling at some work areas and public entrances.

The Solution: In September 2008, after an initial trial installation, Bird Free Fire Gel was used to drive birds from the cargo quarantine area, where some 600 tubes of Bird Free Fire Gel were successfully deployed

Incheon International Airport Project



external view (above) and the main passenger hall entrance



Bridges and Structures

Bridges are just one of the structures that lend themselves to perching and nesting birds among the myriad of supporting beams and struts...

The beautiful Sungsan Bridge is an essential structure spanning the mighty Han river, linking the two halves of the South Korean Capital, Seoul. Opened in 1980, at 1,410 metres in length, the Sungsan Bridge is one of the longest bridges in the area and it's 6 lane highway provides an essential link for the over 10 million residents of the city.

The Problem: Staff at Seoul City Council explained that the problem droppings from around 300 pigeons were causing unsightly discoloration of the paint and corrosion of the I-beams of the bridge everyday. ...and with cyclists and pedestrians crossing the bridge being subject to a daily bombardment of bird droppings landing on the roadway as often as once every 5 seconds.

The Solution: In May 2009, a trial installation of Bird Free Fire Gel proved so successful and instantly effective at driving problem birds from the structure, that just a month later in June 2009 a further 1,082 tubes of Bird Free Fire Gel were deployed ...the bridge is now clean and safe again and the public have returned to using it.

Sungsan Bridge Project



night view (above) and general view of the bridge



Car Parks

...relatively warm and safe from the elements, car parks are a natural attraction for nesting and roosting birds such as pigeons, but it's not good news for pedestrians ...and cars can suffer serious damage to their paintwork as a result of bird deposits...

Located close to Gatwick Airport, Horsham District Councils Forum Car Park was infested with pigeons, which nothing seemed to be able to shift.

The Problem: As Horsham District Council's senior pest control officer explained, pigeons had been roosting inside the entrance to our Blackhorse Way car park for years, and the Council was receiving complaints from members of the public on health and safety grounds. Traditional bird proofing methods were not viable at the site, so when we heard about a high-tech bird repellent that had recently been introduced into the UK we decided to give it a try.

The Solution: The entrance to Horsham's Forum car park on Blackhorse Way was cleaned of pigeon droppings and bird-proofed with Bird Free, the non-toxic natural bird repellent, on 3 March 2011.

Commenting on the efficacy of Bird Free two weeks after it had been applied at the car park, Martin Rosier observed;

The site was cleaned of accumulated pigeon droppings and the new repellent gel was applied where the pigeons had been roosting. The whole job was completed overnight, and there has been no sign of the pigeons returning since.

For pigeons to completely desert a habitat they had been frequenting for years flies in the face of all the knowledge of pigeons and their roosting habits I have gained over 27 years in pest control. Even where physical barriers such as spikes and nets are installed, pigeons will typically still attempt to return to their roosts.

By contrast, with this new Bird Free Fire Gel they simply don't want to know. It is not overstating the case to say that I am astonished at the results.

We are now planning to apply the repellent gel at another public car park in Horsham, and we have already recommended it to other Councils with similar problems.

Peer Group Recommendations;

Crawley Borough Council were so impressed with the results demonstrated at the Horsham car park, that based on Horshams recommendations, they successfully installed Bird Free Fire Gel at their own Town Hall Car Park, where again, the problem pigeons were ousted within just days

Horsham Council Car Park Project



entrance to Horshams Forum Car Park



above: this pipe was a favourite perching area

below: but not since Bird Free was installed



below: Crawley Town Hall Car Park



Cafes, Bars & Leisure Areas

This attractive café bar was plagued with pigeons attracted by a ready supply of food leftovers. They perched on the building ready to swoop down and feast on food debris as diners left their tables.

The Problem: Apart from the constant flapping of wings, the troublesome pigeons were also making a mess on the tables, presenting an ongoing problem for the owners.

Bird droppings were also an ever present overhead threat to pedestrians and passers by, as well as making it necessary to tread with care to avoid underfoot fouling.

As bird fouling is not only visually unpleasant, but can pose serious health risks, action was needed!

The Solution: Bird Free Fire Gel was installed along the roof edges and on the ledge around the balcony, window sills and the lintel above the doorway.

The installation was completed in just 3 hours – the birds had given up and left the building in less than a week!

Alfresco Café Bar Project



pigeons perched on the roof, ledges and windowsills, etc. ready to swoop down on leftover food in this open air café

...that is until Bird Free was installed along the roof edge, ledges and windowsills (see below)



Maritime Applications, Ports & Coastal Buildings

...Gulls and pigeons can be a nightmare around costal buildings and structures, but Bird Free Fire Gel offers a practical solution

...and it's even used to keep gulls off channel marker buoys in busy seaways...

The Problem: This marker buoy in the Yeosu channel was regularly fouled so badly, that the port authorities had to send a boat and crew out every couple of weeks to clean the solar panels and the marked identification panels so that the identification marks could be seen clearly.

The Solution: On 7th April 2009, 3 tubes of Bird Free Fire Gel were used to protect the surfaces previously used by perching seagulls. Results were instant and the Bird Free installation has completely solved the problem.

...with massive cost savings to the port authorities now that the regular maintenance trips are no longer required every few days

Bird Free has also been deployed at **Incheon Port** for other applications including driving birds from the water towers that control the operation of the many busy **Lock Gates**.

Incheon Port - Channel Marker Buoy & Lock Gate Protection Projects



channel marker buoy (before & after bird Free)



Plant & Equipment (incl. Air Conditioner units, etc)

...external air conditioning units on buildings are just one of the many convenient perching and roosting places birds love, but the damage directly resulting from bird fouling is not only unhygienic, but can also be very costly

Air conditioner plant and other equipment installed outside of a building is often favoured as roosting or nesting areas by the likes of pigeons because of the protective environment they offer.

Apart from the "health hazards" posed by bird droppings, their corrosive effect on equipment can be expensive to remedy. Bird Free Fire Gel offers a practical and economic solution.

As shown here, the Bird Free Fire Gel installed in dishes on the new unit casing, and on the surrounding guard rail and foot wells at the base of the unit will stop the problem before it begins!

Protecting Air Conditioners and other external equipment



air conditioner unit and guardrail



Telecoms & Utilities (Electricity, Gas, Water)

...from power substations, to high pylons and telecom masts, there are many areas where bird fouling can be a serious issue, but Bird Free offers a cost effective solution...

Birds think nothing of perching at the dizzying heights atop a power pylon or telecomms. mast, ...but the corrosion caused by their droppings is costly to repair and in worst case situations can even cause dangerous damage below.

KEPCO (Korean Electrical Power Company) have first hand experience of the problem, which is why they have invested in installing Bird Free Fire Gel on many of their structures, like their electricity pylon pictured to the right.

The Bird Free Gel dishes are typically stuck in position using a clear silicone adhesive before being filled with the gel, however the optional magnetic dishes are also sometimes used as a convenient alternative. working at this height, the use of a safety harness by the operative is obviously a must.

Bird Free Fire Gel is also ideal for protecting less obvious perches as the telecomm. mast fixings shown right;

Used on Pylons Telecom Masts, etc



above: protecting an Electricity Pylon

below: protecting a Telecomms. Mast



For more information about Bird Free Fire Gel, visit;

<http://www.insight-security.com/Bird-Free-FAQs.htm>

where you will also find quick links to a wide range of Case Studies, Installer Guide, downloadable Safety Data Sheets and much more...