



Rat-Out™ Gel

Rodent Repellent

SITE DESCRIPTION » The home is a waterfront property on a small lake located in Central Florida. It is surrounded by trees and is one of several residences located on the shore of the lake. There is a large screen room on the waterfront side of the house as well as a detached, open barbecue and entertainment area several feet from the home.

THE PROBLEM » Squirrels have been running across the screens causing damage. In addition, they have also been leaving messes in the entertainment area and damaging potted plants on the patio. Due to exterior construction projects, we are unable to address the entertainment and patio areas. They have access to the screen room area via a tree on east side of the home by climbing it and jumping across onto the brick siding, then onto the screens. The problem has been ongoing for years and no harassment methods by the homeowner have alleviated the issue satisfactorily.

THE SOLUTION » The site was evaluated and the travel pattern used by the animals noted. Rat-Out was applied to the tree the squirrels were using next to the house. The overhanging limbs were banded with single band of material; then it was applied to the juncture point of the limbs where the animals pause and feed on nuts. Then Rat-Out was applied to a fence line against the tree and to the mortar joints at the landing zones on the house. The day after the application, the squirrels appeared to have made contact with the Rat-Out, but weren't affected by the treatment. The next day the animals were not to be found on the tree or the house. The squirrels stopped running across the screens and the damage was prevented. The initial application of Rat-Out kept the animals out of the area for just over one month, and then they returned. Reapplication of Rat-Out has again shut off the problem. At this time, it appears the repellent action lasts at least one month with exposure to subtropical sun, wind, and rain in this exterior environment. Ongoing investigation will indicate how many applications might be needed to permanently discourage their activity. The squirrel pressure is high because of a large resident population in this waterfront community. Rat-Out is providing the most humane and reasonable control for this situation.

Case Study: Squirrel Problems at a Residential Account



Squirrels were running across the porch screens.



Rat-Out Gel was applied to the tree from which the squirrels accessed the house.

Rat-Out was also applied to the brick and around the screens of the house.





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Case Study: Nursing Home Courtyard

SITE DESCRIPTION - The building is a sprawling one story nursing center located in North Central Florida. It has landscaped grounds and a large enclosed central courtyard assessable only by going through the building. This central area is used by the residents for recreation and relaxing outdoors.

THE PROBLEM - Roof rats were entering the central courtyard via the roof tops by climbing up the trees near the exterior and then down the trees on the courtyard side. They were also attempting building access through penetrations and spaces around HVAC units on the ground. These rodents were seen by residents and caused alarm. Bait stations had been secured in service zones as a remedy, but the rats were ignoring them.

THE SOLUTION - The technician performed a complete assessment and evaluation of the site in November of 2010. During this process, he identified the access points the animals were using to enter the central courtyard. The interior of the building had no signs of rat activity, so the problem was limited to the courtyard space. Rat Out was applied to a suspect exterior trees in narrow bands girdling the trunk and to penetration points along the building. It was also used around the ground base HVAC units where animals were gaining access to service spaces. The first sign of success after the application was that rats that previously accessed the courtyard could not escape from the area because of the Rat Out in their way. The only food available to them was the bait inside the previously placed bait stations. All of the bait was consumed within a few days. The nursing center staff found and removed a number of dead rats inside the courtyard space. Since that time, no rats or signs of them have been found. Because of the Rat Out application, animals inside the courtyard at the time of application were trapped and died feeding on the only food source available: the toxic bait. Rodents outside the building have now been cut off and cannot gain access. The situation remains under control as of February 2011.



The large, open courtyard. Scurrying rats scared the residents.

One route into the courtyard was up these trees and over the roof. Rat-Out on the trees blocked that path.

Bait stations were avoided because the rats had free passage in and out. After Rat-Out was applied they had no choice but to eat the bait.





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Case Study: Corrugated Steel Barn

SITE DESCRIPTION – The warehouse building is corrugated metal construction, one story high with a raised concrete pad floor located in North Central Florida. The building has numerous holes and penetrations allowing rodent access in multiple areas. Exterior grasses and trees allow pests close cover and concealed access to the structure. The building is not rodent proofed and the front doors stay open for long periods of time. Paper bagged grains and beans are staged and stored on pallets.

THE PROBLEM - Rats had regularly damaged the bagged products on the pallets for some time. Bait stations containing both liquid and block baits were installed around the interior perimeter of the space. Rodents fed heavily on the toxicants, but the overall load of rats active in this site made total elimination impractical.

THE SOLUTION - The technician evaluated and identified all the possible access point rats used to enter the building. The cost of repair to all these areas was prohibitive to the client. On November 23, 2010, the technician used $\frac{3}{4}$ of a tube of Rat-Out Gel, placing nickel sized deposits of the material at all of the possible penetration points. These included holes, torn wall sections, and pipe runs. At the rear of the structure, a tree was banded with Rat-Out to address a limb that penetrated a vent opening allowing rodent access. One month later, the rodent device hits declined dramatically, liquid placements were ignored and dead rats were found inside the building. The rodents apparently gained access through a service door, but the gel blocked their regular paths to exit the building. The large number of rats inside the structure has been resolved. No further product damage has been recorded nor rats observed in the building as of February 2011. The liquid baits have been removed since they were no longer being used. Solid baits are still installed, but have had no signs of feeding since the December service visit.

Since using Rat-Out, the rat pressure on the building is nearly zero. The rats are still active in the surrounding area, but avoid the Rat-Out applications.



Trees against the building proved to be a busy route. A band of Rat-Out around the trunk stopped this.

Rat-Out Gel is applied in this open pipe run.



Rats had chewed the foam blockers. Rat-Out Gel is applied and blocks their travels.

A nickel-sized dab on each sprinkler pipe joint eliminates the popular pathway.

