



filtadrain

Case Study

June 9th, 2017

Executive Summary:

Commercial kitchens everywhere in the United States deal with similar issues. One of those primary issues is with drains. From clogs, smells and flies, drains make up one those most cumbersome and costly areas in kitchens today. Roughly \$30 Billion dollars are spent EACH year on drain clogs and with Federal regulations coming down strong from revisions to the Clean Water Act, the EPA is beginning to push local city and county municipalities to do a better job with controlling pollutants being dumped down drains.

To help resolve this problem, Filta Environmental Kitchen Solutions has partnered with a bioengineering company with over 20 years of extensive experience with bioremediation. The efforts of these engineered living bacteria have been documented in years of studies and have been proven to reduce drain clogs due to soluble deposits of fats, oils, greases, starches and sugars. The reduction of these soluble deposits has removed a major source of food and has been proven to reduce drain fly swarms. With the removal of FOGS and an added essential oil, smells emanating from drains has significantly been reduced as well.



Study:

Many locations throughout the University have experienced drain clogging, smells and drain fly swarms. Taking Lakeside dining as a sample testing center, the Filta and Bama Dining team conducted a 21 day from May 18, 2017 thru June 8, 2017 21 to testing the effects of our FiltaDrain product. The results were outstanding!

Day 1: Six (6) drains were chosen for their high saturation of drain flies. After a quick inspection to verify non-soluble items were not present and a brief wipe out of the drain surface was performed an application of FiltaDrain was introduced to the drain.

Day 7: All drains were inspected and the team found that drain fly infestation dropped by 95%. Smells from the drains were no longer present. Another application of FiltaDrain was applied to the six drains.

Day 14: All drains were inspected for non-soluble items, smells and flies. Although some food particles were found in the drain traps, the team found that NO drain flies were found in the premises of the drains being serviced and concluded a 100% drop in drain fly infestation. Smells from the drains were still no longer present. Another application of FiltaDrain was applied to the six drains.

Day 21: This was the final day of observation and application. Again, inspections were made for non-soluble items in the drain. Food particles were found in the drain traps and removed. Again, NO drain flies were found in, near around around the areas where six drain trial was being conducted. Smells from the drain were no longer present. A final application of FiltaDrain was applied to the six drains.

Conclusion:

The FiltaDrain service was effective in removing the following issues from the six drains being trial serviced at Lakeside dining:

1. Within two (2) weeks the presence of drain flies were completely eradicated.
2. Within one (1) week the presence of odors found in the drains had been completely removed.

With continued partnership with Bama Dining management to provide education and a continual regimented weekly service, would assist in greatly reducing any future drain fly and odor issues as well as assist in breaking down future drain clogs.

BEFORE



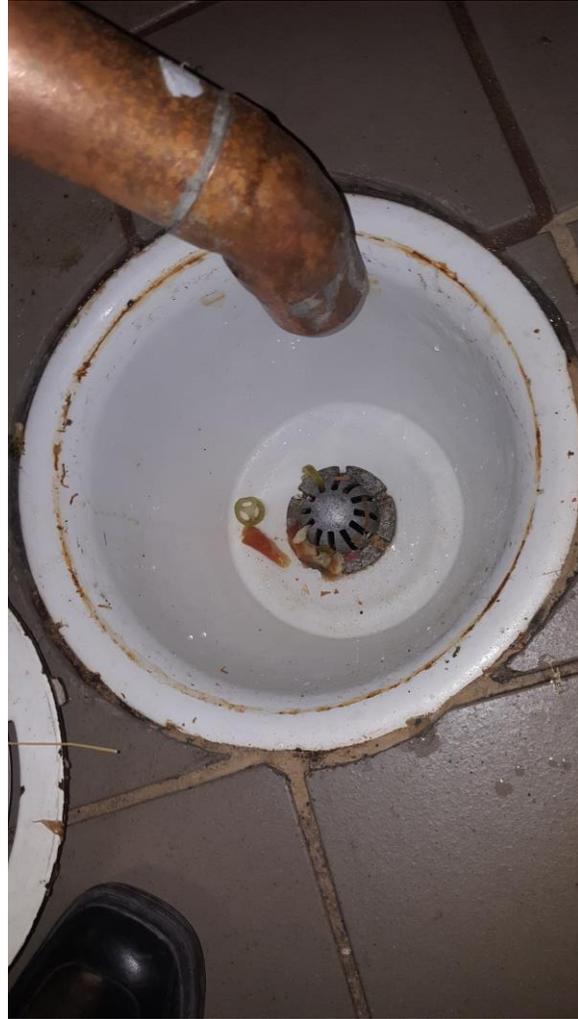
AFTER



FOOD DEBRIS



FOOD DEBRIS



Filta Drain Foam FAQs

What is FiltaDrain?

It is a complete drain maintenance service delivered through to the drains through a pump sprayer. It is designed to naturally remove fats, oils and grease; as well as sugars, starches, and other organic material that can cause blockages, slow running drains, and foul odors.

Key Benefits:

- Contains NO chemicals, emulsifiers, solvents, soaps or dangerous fumes
- 100% pure, live vegetative bacteria
- Biodegradable, non-pathogenic and non-toxic
- The live active bacteria consume both FOG (Fats, Oils, Grease), sugars and starches
- Freshens drains with an added odor eliminator
- Reduces service calls
- Helps control drain fly infestations and sugar snakes

Is FiltaDrain a green product?

Yes. FiltaDrain consists of 100% pure, live vegetative bacteria, which is biodegradable, non-pathogenic, and non-toxic. It has been given the prestigious Safer Choice Award by the EPA.

What are Bacteria?

Bacteria is found in the air, water, soil, animals, people, food...literally everywhere. It is the simplest and most numerous form of life on the planet. Its size is typically microscopic at one ten thousandth of an inch. This "bioremediation" plays a major role in recycling chemical elements and compounds in nature and is the natural process in which the environment solves problems. Example: New Horizon Gulf of Mexico spill where 65% of the oil spill clean up was completed with live bacteria.

How quickly does FiltaDrain begin working?

FiltaDrain begins working IMMEDIATELY! In addition, because it's a bacteria it has the capability to reproduce itself and does every 20 minutes! One spray can create literally hundreds of billions of bacteria cells.

What drain problems will FiltaDrain help resolve?

It's a 75% of commercial drain line problems are caused by the buildup of (FOGs) Fats, Oils and Greases from pot washing sinks, dishwashing machines, spills and even cooking vapor. These materials in the drains, can then cause drain flies to breed in them. The bacterium in FiltaDrain eats the Fats, Oils and Greases, taking away the breeding ground for the drain flies.

Is FiltaDrain an enzyme?

No. FiltaDrain is NOT an enzyme or spore bacteria. These items take approximately 24 to 48 hours to begin working and the conditions must be perfect.

FiltaDrain is a group of 16 strains of 100% living bacteria, similar to what you would find in the digestive part of your gut and begins working in the drains immediately. Once these living bacteria have finished eating, the bioproduct is Co2 and water.

Where can FiltaDrain be used?**Summary:**

A FiltaDrain study was conducted for a course of 21 days from May 18, 2017 thru June 8, 2017. can be used on ALL commercial drains: Kitchen, Bar & Restroom.

Do extreme temperatures or harsh chemicals affect FiltaDrain, once it is in the drains?

FiltaDrain contains a very hardy bacteria, and only boiling water, (which you never find in a drain), or excessive amounts of bleach (other than just normal floor mopping) are the only 2 things that will kill some of the bacteria. It is not a major problem, because you are reintroducing new bacteria every time that you spray their drains.

Why is there a foaming agent in it?

It was designed to foam, so that it would stick to the top of the drain, in order to start eating where the drain flies lay their larvae. The bacterium then makes it way down the pipe, through the p-trap into the main.

After introducing the product into a drain, is there a wait time before water can go into the drain?

No, there isn't a wait time. The bacterium colonizes to the food source, whether that is at the top of the drain, or at the bottom. They will colonize away from the drain flow, upstream of the water.

Is the product just for floor drains?

FiltaDrain can be used in any drain line.

Does high ambient temperature affect the product?

No. The bacterium prefer higher temperature.

Does the drain cover need to be removed before each treatment?

No. After the initial service, FiltaDrain can be sprayed through the holes on the drain cover.

Is there an SDS with the product?

Yes, the FiltaDrain SDS sheet will be available upon request.

What is the recommended service cycle/How often should I spray?

Once per week is recommended – Twice per week with extreme drain usage. This should be seen as preventative maintenance.