

Media Contact:
Brad Brenner
(503) 736-0610
brad@brennerassociates.com

== CASE STUDY ==

**WHEN ALL ELSE FAILED, CSI-STYLE CRIME LAB
SOLVED FAULTY EXHAUST PROBLEM WITH AEROSEAL**

**Odor From Decomposing Bodies Permeated The Miami Valley Autopsy Lab And Its
Adjacent Offices – Aroseal Saved The Day For Engineers...And Other Occupants**

When decomposed bodies are found in Ohio’s Montgomery County, they wind up at the Miami Valley Regional Crime Lab for autopsy. And for years, occupants of the three-story facility knew whenever a new body arrived because the strong smell of the rotting corpses would permeate the building. Despite spending hundreds of thousands of dollars over a period of years trying to solve the problem, nothing seemed to work. Replacing the HVAC system didn’t work. Nor did installing high-efficiency fans, adding an exhaust system incinerator, insulating the walls or any other strategy used so far.

Finally, the third engineer entrusted with solving the dire problem saw an episode of PBS’s “Ask This Old House” that included a feature on aroseeal technology, a duct sealing process that seals leaks from the inside of the ductwork. He believed he might have finally found an answer to the problem.

In Brief

Building: Miami Valley Regional Crime Lab
Location: Montgomery County, Ohio
Aroseal Contractors: Service-Tech
Goal: Improve ventilation / eliminate odors
Before Aroseal: 988 total CFM of leakage
After Aroseal: 43 CFM of leakage
Results: 96% reduction in leakage; elimination of any migration of odors throughout the building



Once hired, it took the aroseeal experts at Service Tech Corporation just two days to completely seal the supply and exhaust ductwork using aroseeal. Temporary access holes were cut into the ducts, and the aerosol-based sealant was blown into the ducts’ interior.

The microscopic particles of sealant do not coat the walls of the ductwork but instead, stay suspended in air until they come across a leak. At this point, they accumulate around the edges of the leak and then to other sealant particles until the entire hole is sealed.

The final report generated by the computer-controlled aroseeal system showed a 98% reduction in leakage. More importantly, the facility director – and the building’s other occupants – declared the problem 100% solved!

“I knew we had leaks in the ventilation system that allowed the spread of odor throughout the entire building, but there was no way we could access and seal the ductwork without completely tearing down the entire structure. Over several years, we spent well over a hundred thousand dollars in new equipment and outside consultants trying to solve the problem, but nothing worked. Then we tried aroesealing, and the problem was solved.”

“I wish all of our projects went this fast and smooth. The aroeseal team was in and out in just a couple of days. The fact is, any ductwork that has been installed a while ago has leakage issues. I’m looking at using aroesealing the ductwork throughout many of our facilities.”

Bill Epperson, Associate Engineer
Montgomery County Government

“Aroesealing the ductwork not only solved our critical ventilation issue, but it allowed us to lower fan speeds while increasing HVAC efficiency. There is no doubt that the duct sealing process had a significant impact on reducing energy usage and saving the county money.”

Jeff Hatton, Energy Management
Montgomery County Government



Aroeseal – The Technology

- Developed at Lawrence Berkeley National Laboratory in 1994.
- Research for aroeseal technology was partially funded by the U.S. Department of Energy.
- Aroeseal is the only duct sealant technology that is applied from the inside of the duct system. It is delivered as a non-toxic aerosol mist that seeks out and plugs leaks.
- Aroeseal has proven to be 95% effective at sealing air duct leaks.

For more information on this sealing project or about Aroeseal in general, contact Aroeseal at (937) 428-9300. You can also visit the Aroeseal website at www.aroeseal.com.

###