



FIRE DEPARTMENT:

Montour Fire Department,
Montour, IA

APPLICATION:

TetraKO water enhancer is tested on an abandoned house in Iowa with firefighters representing Montour, Tama, LeGrand, Haverhill, Green Mountain and Hiawatha Fire Departments.

SUMMARY:

TetraKO is tested on a series of house fires in central Iowa. In addition to experiencing almost immediate steam conversion and fast knockdown, there is very little mop up required. TetraKO solution is also tested in several, small fire extinguishers.

TetraKO™
ATTACK. SUPPRESS. CONTAIN.

FIRE INCIDENT REPORT #11:

We do a lot of mutual aid with neighboring communities, and many of them were in attendance at a house fire test burn using TetraKO. On the house test burn, we made three different entry attacks. The first two were in a living room area we had stocked with a very heavy fuel load. We broke out one of the pair of three foot by three foot windows at the front of the house and did an external attack, and swept through the room with TetraKO. It was a very fast knockdown.

For the second attack, we added fuel, started another fire and let it really get rolling! Firefighters broke the second window and made an interior attack using TetraKO. The results we observed were very positive. The third attack was in the front kitchen area. Firefighters went in through the front door discharging TetraKO and, almost immediately, the smoke changed to steam and was knocked down. We backed out and let it air for a little bit, then went back in and hit a few remaining hot spots.

We also tested TetraKO in some small fire extinguishers by using the extinguishers to apply a little bit of TetraKO on an overhanging porch above the back door. It had a white storm door and an overstuffed chair. We sprayed a protective coating on the storm door and the porch's interior surfaces. We lit the chair and it completely burned away. The door had only a little soot but never burned. Then we sprayed an "S" with TetraKO down the side of a board and threw it into the fire. Later, when we pulled the board from the fire, you could tell where the TetraKO had been applied.



Firefighters went through the door discharging TetraKO and almost immediately you could see the smoke change to steam.

I've used foam, and TetraKO is a lot more effective than foam. For one thing, it stays put. It stays on the walls. After the burn, I went up to the building we wanted to protect and you could still feel the TetraKO was there.

I need to add that all the firefighters were really impressed by the biodegradability of TetraKO, because we're all interested in protecting the environment. When the DNR heard about our test burn, they asked about chemical exposure for the nearby creek. If we had been using traditional foam, I am sure they would have required a battery of environmental tests. Through the certifications provided by EarthClean, this was not needed.

—Mike Buchanan, Maintenance Captain
Montour Fire Department

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