



New Covert Generating: Learn how a coating system protects the cities electricity supply.

PROJECT INFORMATION

Project Year: 2022

Project Size: 800 sq ft.

Project Location: New Covert, MI

Project Overview: Silicone coating over existing concrete deck and walls.

Manufacturer Used (Coating):

Progressive Materials

In the city of Covert, Michigan, electrical power comes from the Power Plant known as Eastern Generation. Electric panel boxes, backup generator outages, and data servers were constantly interrupted by water leakage into its Pump House.

Water was entering the 800 sq. ft. Pump House through multiple entry points. Holes were found on the upper portion, clay stacks were degraded, and the louvers were in bad shape.

The #1 issue was the open-faced concrete wall allowing water into the pump house. The concrete wall had multiple microscopic water entry points that needed to be sealed.

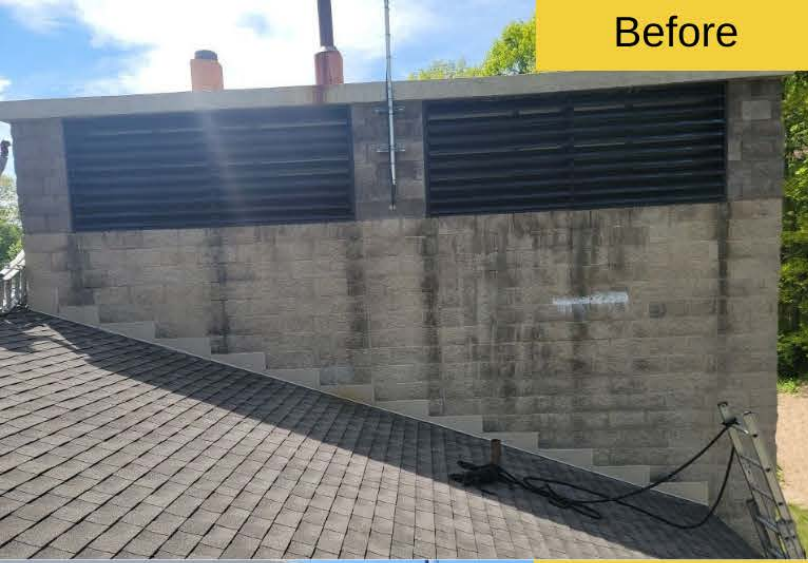
A fluid-applied, waterproof coating was the only cost-effective option to seal the water entry points.

The alternative was to hire a masonry company to remove the concrete wall and install a new one. The estimated cost from the masonry company was more than \$1M. This didn't include the electrical downtime for the city.

The project was done in 3 days (as opposed to 2 months for the masonry option). The project cost was 1.1% of what the masonry company would've charged.



Before



In-progress



Scope of Work

- Safety setup (lots of foot traffic nearby)
- Cover electrical panels, data servers, and generators
- Powerwash roof and walls
- Clay stacks sealed and waterproofed
- Install 20 mils of silicone coating
- Renewable 10-year warranty

The alternative solution of hiring a masonry company to remove and replace all the concrete would've cost about \$1M. Installing silicone cost about 1% of that.

This project won 2nd place at SPFA23 for an elastomeric roof coated roof

