

CASE

Fountain features are common in thousands of business parks, housing projects and city centers throughout America. They typically consist of a containment area, piping and pumps, and electrical cables. In almost all cases, the water is highly chlorinated to kill off bacteria and potentially unsightly algae. It is the chlorine which is almost always the root cause of system failures and maintenance regimes.

Problem

A Nashville, Tennessee business park fountain, about 120 feet long, with widths varying from 15 down to 10 feet, and a depth of 2 feet 6 inches, had been built 20 years ago and its rubberized lining was failing badly to the point of causing substantial leakage directly into the ground, necessitating frequent top ups.

Rubberized linings by their very nature are hard to replace because of the substantial effort required to strip them from concrete. They are also costly and the owners wanted to keep costs down.

A common problem with fountains is created by members of the public throwing in small change. In this case, copper coins had reacted with the chlorine in the water and appeared to have seriously accelerated corrosion of the lining.

Solution

The applicator had conducted tests and was satisfied that, subject to an adequate preparation of the existing liner with removal of the degraded patches, that an Ecodur overcoat to 50 mils, would provide a tough, permanent non-toxic seal that could, if ever necessary, be perfectly repaired at any point in the future as Ecodur has a near unlimited ability to re-bond to itself due to its unique chemistry.

It is also VOC-free and does not require any costly clean up as no solvents are either contained in the product, or used in its application or clean up.



Application Results

General site preparation, including the removal of the damaged area took three days. There was a two-week pause for electrical work to be carried out by another contractor. The applicator returned and had to do some additional clean up from the electricians' activities.

50-60 gallons of dark grey Ecodur 2015 was sprayed during one daylight shift in dry, unshaded hot temperatures in the 90 degree Fahrenheit range. Tack free dryness was achieved in 30 minutes and full cure and final sign-off post inspection was completed within 24 hours.

By using Ecodur, which is comprised of vegetable oil and a common, non-toxic mineral gypsum, meant no noxious odors pervading the area with no risk to the public. The applicators, AquaBlocX, which is a full service infrastructure rehabilitation and coatings contractor, followed standard safety procedures throughout the job.

The client did an additional inspection nearly two months later and reported complete satisfaction with the project and no leaks.

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