

CASE STUDY

EQUIPMENT: Cooling Tower Concrete Basin

PROBLEM: The concrete basin developed various cracks which caused water loss to the ground.

BACKGROUND:

The cooling tower system's water consumption increased year after year with no explanation. After thorough inspection, it was evident the concrete basin had developed various cracks from years of operation. The basin had been originally coated with an epoxy material. The stiffness of the epoxy did not withstand the soil movement and cracked along with the concrete basin. The facility owner needed a long term, cost effective leak repair with minimal downtime.

SOLUTION:

Repairing the cracks with concrete patches would not guarantee the basin would stop leaking as it is a porous material. The new concrete would have poor adhesion to the existing concrete and deem unreliable. A new coating was needed to seal the concrete. The epoxy option was avoided as it would create the same failures. Our solution utilized Rhino Liner 11-50 due to its high resistance to chemicals as well as its flexibility characteristics. If the problem persists, and cracks develop, our liner would still provide protection to the basin and prevent leaks. The Rhino Liner 11-50 cures in minutes once applied, which minimizes downtime.

RESULTS:

The project was completed in only 5 days. Our solution created a permanent durable cooling tower basin.



Contact Advancoat, LLC at sales@advancoat.com