

SEPTEMBER, 2016





**PROJECT LOCATION:** Executive Center | North Carolina

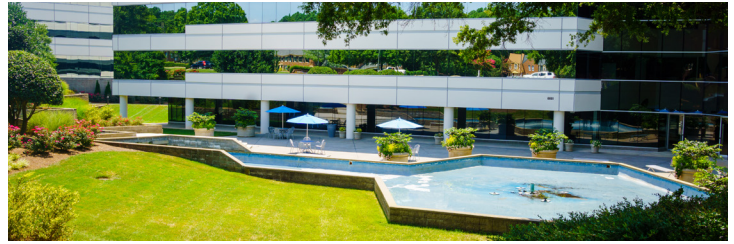
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**THE CLIENT**

Located in North Carolina, this Executive Center was purchased from an investment company in 2013. The Executive Center has two office buildings, with a total of more than 175,000 sqft. of office space. The property saw \$11.8 million of capital improvements and renovations, which includes the fountain covered in this study.

**THE CHALLENGE**

The previous lining that was used for the Executive Center fountain was in dire need of replacement. The concrete was not properly prepped for the lining, which ended up contributing to the linings short life span. The concrete had areas with cracks that needed to be patched, and on the inner walls of the fountain, spalls and bug holes were not properly filled. All of these factors, along with the selected linings chemistry, led to the lining cracking and delaminating in many areas. This left the beautifully architected fountain with a worn down, undesirable look.



**THE SOLUTION**

The contractor carefully inspected the fountain and Wolverine Coatings Corporation's products were specified for this job due to their durability and longevity. To remove the previous epoxy lining, the crew used a diamond blade concrete grinder on the fountain floors, and a hand held diamond blade grinder on the walls and corner surfaces. To repair the concrete, **IntegraFlex 1922** was used on any vertical surface that had spalls, cracks, or bug holes that needed patching. **IntegraFlex 1921** was used to repair cracks on the horizontal surfaces. Once cured, any high spots were then leveled with a grinder. After the substrate had been properly repaired, the crew applied a 15 mil flood coat of **BondTite 1101 Primer** to the fountain floor, and 12 mils to the walls. The primer flood coat also aided in smoothing out any uneven areas on the surface. **LiquaTile 1187** protective epoxy lining was then applied overtop of the primer at 25 mils using a squeegee and roller brush. Once the base coat cured, an additional coat of **LiquaTile 1187** was again applied at 25 mils as the top coat.

The finished fountain lining has excellent resistance in aquatic environments, while also displaying outstanding mechanical properties, such as adhesion and abrasion resistance. The primer's advanced penetration paired with its robust adhesion to concrete provided an excellent foundation for the lining system. With standard maintenance, this lining system has the ability to keep this fountain looking great for years to come.





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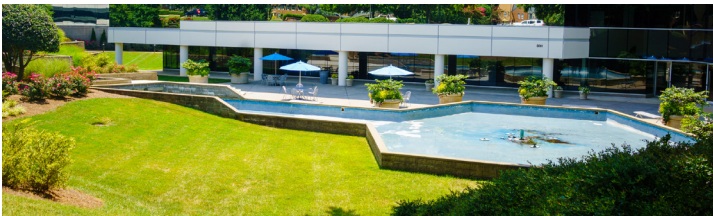
## Prep Work

1. All pool surfaces to be coated received diamond blade concrete grinders on pool floors and handheld diamond blade on wall/corner surfaces.
2. IntegraFlex 1921: Crack filler for horizontal surfaces
3. IntegraFlex 1922: Cracks and bug hole patching for vertical surfaces.

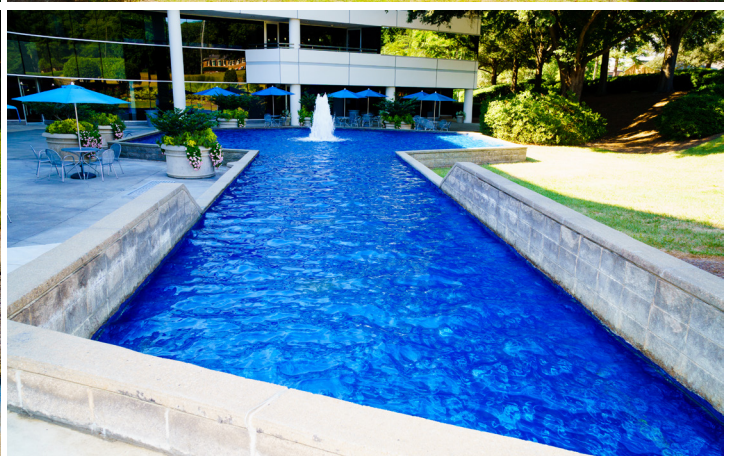
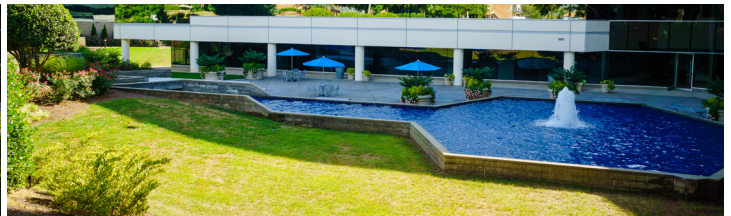
## Epoxy Lining System

1. Primer: BondTite 1101 - Applied at 15 mils
2. Base Coat: LiquaTile 1187 - Epoxy Lining for aquatic environments - Applied at 25 mils
3. Top Coat: LiquaTile 1187 - Epoxy Lining for aquatic environments - Applied at 25 mils

Before



After



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