WOLVERINE COATINGS corporation

Case History Report: YMCA Lap Pool

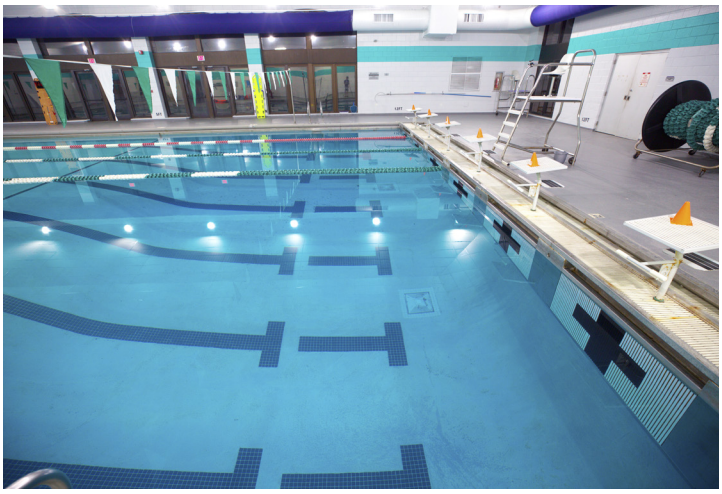
SEPTEMBER, 2019

PROJECT LOCATION: YMCA | North Carolina

DATE OF PROJECT: September, 2019

THE CLIENT

Located in North Carolina, The Cannon Memorial YMCA has strengthened the families of Cabarrus County, North Carolina since its founding in 1908. For over a century, the Y has served as a center of social and recreational activity. With three locations to serve its community, the Y focuses on youth development, healthy living and social responsibility.



THE CHALLENGE

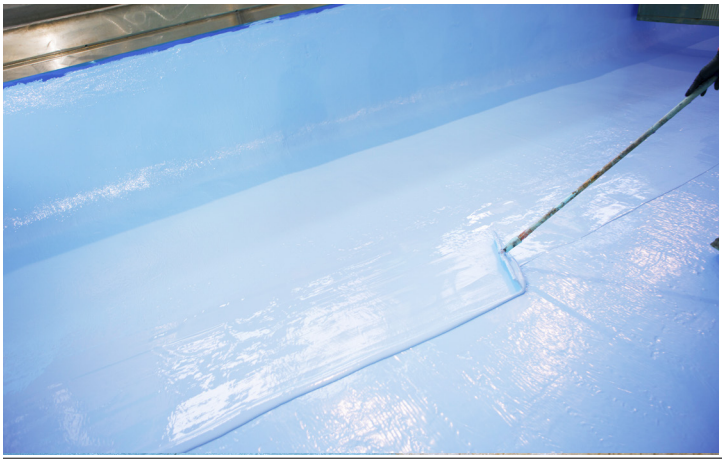
The lap pool was formed by placing and forming a concrete shell in the ground, then troweling a waterproofing Marcite layer over the concrete shell. Unfortunately, the Marcite layer thickness was anywhere between ½" to 2.5" thick, and was deteriorating and peeling in multiple areas. The pool floor and walls were spattered with blemishes from the repeated cleaning of algae. The entire pool's substrate needed to be removed, resurfaced, and recoated.

THE SOLUTION

To remove the pre-existing marcite, the crew used jack hammers, chisels, hammers, and various hand tools. Once the Marcite layer was removed, a cementious based product was troweled over any uneven areas to repair and resurface the pool's concrete shell.

After the substrate had been properly repaired and prepared, the crew applied a 15 mil flood coat of **BondTite 1101** Primer to the entire pool's surface. Once the primer had cured, **LiquaTile 1187** protective epoxy lining was then applied at 30 mils using a squeegee and roller brush. An additional coat of **LiquaTile 1187** was again applied at 30 mils as the top coat. Lastly, **LiquaTile 1187** was used for the black lines to denote the swimming lanes.

The primer's advanced penetration paired with it's robust adhesion to concrete provided an excellent foundation for the lining system. The pool lining has excellent resistance in aquatic environments, backed by outstanding adhesion and abrasion resistance. Keeping the pool clean will be less troublesome, as the previous tiled swimming lanes that attracted algae buildup were removed and replaced with this seamless system.



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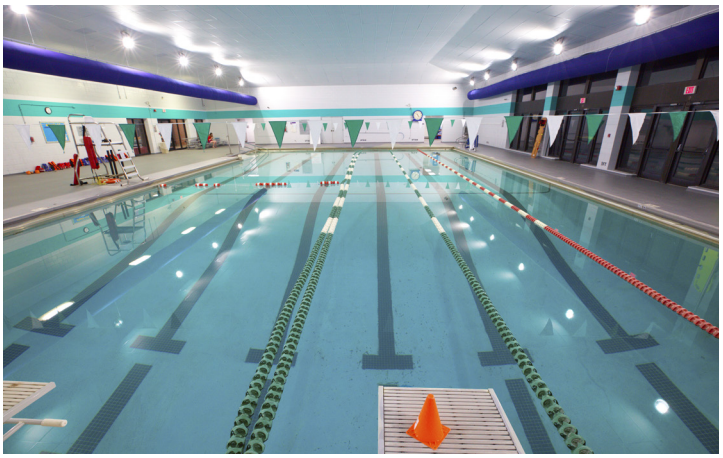
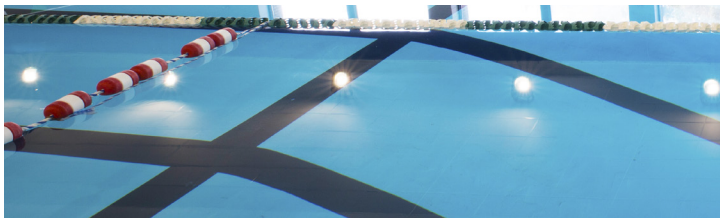
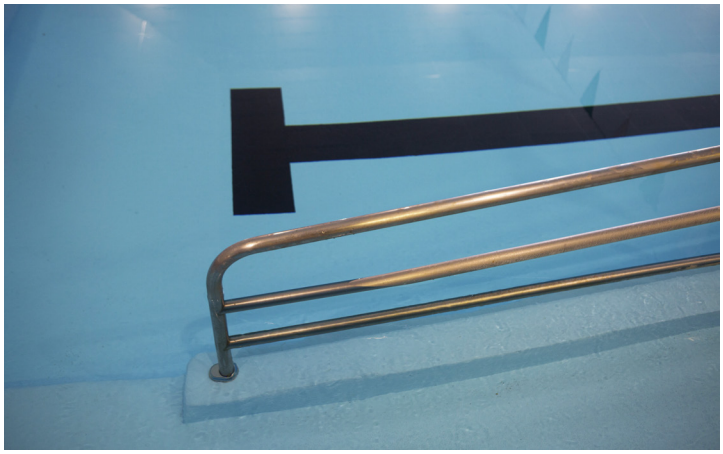
Prep Work

1. *The pre-existing marcite layer was removed where possible using jack hammers, chisels, and various hand tools.*
2. *A cementious based product was troweled into place for repairs and resurfacing.*
3. *All surfaces were treated with tri-sodium phosphate (TSP) to develop a profile for the primer.*

Epoxy Lining System

1. **Primer: BondTite 1101** - *Applied at 15 mils*
2. **Base Coat: LiquaTile 1187 -** *Epoxy Lining for aquatic environments - Applied at 30 mils*
3. **Top Coat: LiquaTile 1187 -** *Epoxy Lining for aquatic environments - Applied at 30 mils*
4. **Striping: LiquaTile 1187 -** *Epoxy Lining for aquatic environments - Applied at 35 mils*

Before	After
	
	
	

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