

PROJECT HISTORY

McKEE FOODS COMMUNITY POOL (LITTLE DEBBIE CAKES)

CHATTANOOGA, TENNESSEE

COMPLETION: 2008



PROJECT ASSESSMENT

“What needed to be done”

This large shot-creted pool was affected by numerous structure cracks created largely by the effects of hydrostatic pressure and poor construction practices. Built on a clay base with no gravel bedding and a lack of hydrostatic relief ports, subsurface water had no routes of escape. Numerous cracks and voids were created from this pressure in various areas of the pool. While the pool was drained, water bled through the cracks from underground, and while full, pool water leaked out through those same cracks in the pool shell. Rust bleeds from chemically treated water touching the reinforcement steel, as well as calcium and ettringite deposits were evident throughout the pool surface. The brick coping, un-glazed waterline tiling and ‘paint over plaster’ pool surface were all in a state of degradation.

RENOVATION PLAN

“How it was done”

Core drill and Schmidt Hammer testing determined that the pool was structurally sound for renovation. The deteriorating brick coping and unglazed tiling were mechanically removed. Abrasive blasting (coal slag) was used to remove the remaining pool paint and the various deposits from the pool surface. Several hydrostatic relief ports were drilled through the pool shell to offer relief to subsurface water while the pool was drained. These same ports would serve to offer relief in the future when the pool is

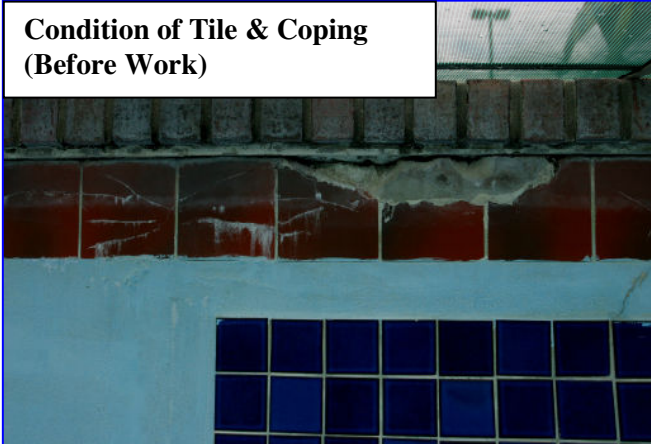
drained periodically for cleaning. Up to 4-diaphragm pumps were used at one time to control and remove subsurface water and relieve pressure on the pool shell during renovation. Structure cracks were sealed with a high-grade epoxy and permanently sealed with the **InterSteel Crack Repair** method. Following placement of new frost-proof waterline tiling and a pour *in situ* coping, the entire pool received the INTER-GLASS® Reinforced Composite System.



SAMPLE PICTORIAL SEQUENCE ON BACK OF THIS PAGE

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Condition of Tile & Coping
(Before Work)



Structure Cracks & Rust Bleeds



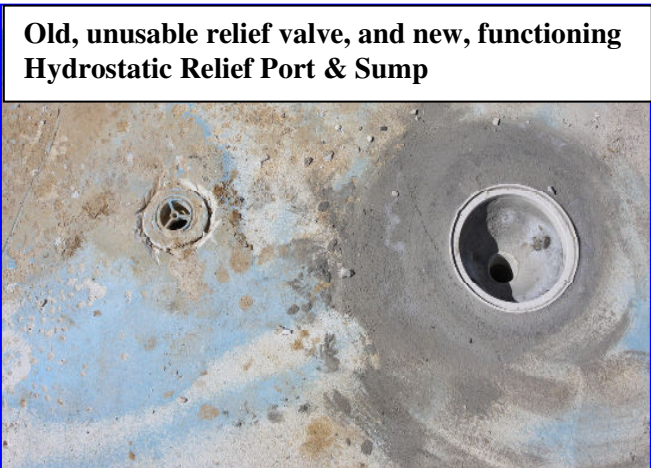
Recording Schmidt Hammer Readings



Coping Pour in Progress



Old, unusable relief valve, and new, functioning
Hydrostatic Relief Port & Sump



InterSteel Crack Repair Underway



PROJECT SPECIFICATIONS:

TOTAL SQ. FT.: 5,585 w/KIDDY POOL
POOL SHAPE: RECTANGULAR w/L DEEP END
TYPE OF CIRCULATION: SKIMMERS
TYPE OF CONSTRUCTION: SHOT-CRETE
TYPE OF FINISH AFTER RENOVATION: INTER-GLASS®