

PROJECT HISTORY
CAMP NAWA KWA (GIRL SCOUTS)

POLAND, INDIANA

COMPLETION: 2008



Before – PVC Liner

PROJECT ASSESSMENT

“PVC Problems.”

Several years ago, the camp owners of this large outdoor, shot-creted and plastered pool opted to install a PVC Liner. After some years of use, the liner began exhibiting unappealing traits such as folds, discoloration, and pinholes resulting in tears and water loss. Moisture and condensation that transport through the liner and seep up through the pool shell by hydro static pressure became trapped. Yearly cycles of trapped freeze / thawed water damaged the plaster and concrete surface under the liner, resulting in tearing apart layers of the subsurface and demonstrating how damage and corrosion beneath an unbonded sheet lining can proceed unnoticed for several years. Structure cracks also affected the pool shell.

“How it was done”

The deteriorated liner and disintegrating, contaminated felt material under the liner were cut apart and removed. Chunks of plaster and concrete damaged by being trapped under the liner through several years of freeze/ thaw cycling were removed. Following high water pressure blasting (>5000 psi), and setting up

RENOVATION PLAN

hydrostatic water pressure relief by diaphragm pumping, all the structure cracks were permanently sealed with a high-grade epoxy sealant and InterSteel. Finally, the entire pool received the INTER-GLASS® Reinforced Composite System that included a frost-proof tiled depth transition line.



Renovation Result

SAMPLE PICTORIAL SEQUENCE ON BACK OF THIS PAGE

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Folds & Discoloration Across the PVC Liner



Liner Removal in Progress



Chunks of Broken Concrete Evident Under the PVC Liner



Disintegrating & Contaminated Felt Backer



Effects on Concrete Under a PVC Liner from Freeze/Thaw Cycling



Surface Condition Found Under the Liner After Removal



PROJECT SPECIFICATIONS:

TOTAL SQ. FT.:	4,640
POOL SHAPE:	LARGE WEDGE
TYPE OF CIRCULATION:	CONCRETE GUTTERS
TYPE OF CONSTRUCTION:	SHOT-CRETE W/PLASTER LINING COVERED BY PVC LINER
TYPE OF FINISH AFTER RENOVATION:	INTER-GLASS®