Case Study
Water Recirculation Pit | San Louis Potosi, Mexico

Project Scope
Install a flexible PVC liner in a concrete pit to solve a failed coating problem.

Challenge
The applied coating in a water collection pit was flaking off and causing contamination in the spray wash of the production line. These flakes were causing rejected parts as the plant was trying to go on-line for the first time. From the initial inspection the failure appeared to be the result of poor substrate preparation.

Solution
To rectify the problem, the project engineers selected a flexible PVC liner from Witt Lining Systems. A Witt Liner is not bonded to the concrete, so the failed coating did need to be sand blasted off of the substrate. This meant the liner could be installed immediately. With no curing time the liner could also be put into service immediately, saving days (if not weeks) of remediation work.

Results
Installation of the liner was performed by H3 Services and completed over two days. Incoming piping was handled with pipe boots. Where there was a core-drilled hole, leading to the collection sump, a compression ring was used to seal the liner to the wall. With the new liner installed, the failed coating could no longer contaminate the water used on the production line.