

Application Profile

- Project:** Duke Energy North America, Malvern, Arkansas
Duke / Fluor Daniel Specified (Charlotte, NC)
- Polyurea Applicator:** TopCor Services, Baton Rouge, LA
Project Monitoring by Primeaux Associates LLC
- Polyurea System Applied:** VersaFlex FSS 45DC, average 100 mils (2.5 mm) applied
- Primer System:** AquaLok II followed by Quick Mender (spray applied)
- Surface Preparation:** HP WC (High-Pressure Water Cleaning—12,000 psi)
Chlor*Rid[®] treatment in Water Cleaning (1:100 dilution)
- Substrate / Area:** Two Concrete Clarifiers, ~ 4500 ft² each
- Date:** February, 2004

Duke Energy North America has a series a small, dedicated power plants throughout North America. These are set-up identically in all plants. The Malvern, Arkansas plant was experiencing leaking in the concrete clarifiers, used to contain river water for steam / cooling operations. Duke / Fluor Daniel specified the use of the VersaFlex FSS 45DC polyurea system for lining of these clarifiers.



TopCor Services was selected as the contractor for preparation of the concrete and installation of the FSS 45DC polyurea system to the existing concrete clarifiers. Due to the use of the river water, there concern was for potential soluble salts on and into the concrete surface, that could lead to blistering and delamination of the applied FSS 45DC lining system. Chlor*Rid soluble salt removal solution was used during the preparation work, and soluble salts were removed to the required acceptable level. AquaLok II (moisture seal) followed by application of the Quick Mender primer system, was completed in one day. The FSS 45DC polyurea system was then installed the following day. The project had to be halted for one day during installation due to snow.



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