

Case Study: Application of The Mainstay Composite Liner on Treatment Plant Walkways



Contractor: H&R Underground

Location: University of California Davis Treatment Plant, Davis, California

Structure: treatment plant walkways

Year: 2016

H&R Underground performed an application of the Mainstay Composite Liner on the outside walkways of the University of California's treatment plant in Davis, California. The concrete had deteriorated due to hydrogen sulfide exposure, and the reinforcement bar within the concrete was also exposed.

H&R began by performing surface preparation using a dustless sand blaster to remove any unsound and contaminated concrete. Then, Mainstay ML-72 Sprayable Microsilica Restoration Mortar was applied to build back the concrete surface and cover the exposed rebar. After mortar application, Mainstay DS-5 100% Solids Epoxy Coating was sprayed to provide corrosion protection of the concrete surface from future hydrogen sulfide attack. A gray version of Mainstay DS-5 Epoxy was used instead of white to reduce brightness and glare from sunlight. H&R Underground also provided slip resistance in the floors by broadcasting sand into the uncured coating, creating a slightly rough finished surface. This application was performed in February 2016.

