

Challenge

Issue

Chemical spills during unloading attack concrete and increase the risk of environmental release.

Goals

To provide a durable, long-lasting, chemically resistant liner that can better withstand loaded tankers on the top of the bay deck.

Root Cause

Acid with pH <4 rapidly attacks concrete.



Deck floor coating condition before applications.

Solution

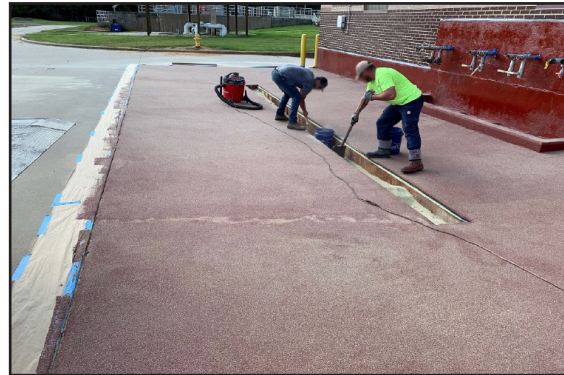
Preparation

The existing coating was removed by chipping hammers and then all surfaces were grit blasted or diamond ground to CSP 3 finish minimum.

Application

Chesterton® ARC EG-1 was used to help repair chemical damage and to help maintain pitch for the center drain.

After ARC EG-1 had cured for 24 hours, a 20-mil thick sealer coat of Chesterton ARC NVE Veil Coat was applied with a non-slip broadcast and a final scrim coat of ARC NVE Veil Coat.



Non-skid coat applied to the deck with forms set in "U" drain for repairs.

Results

Client Reported

- Repairs were carried out quickly and efficiently.
- The liner has been in service for >24 months with minimal signs of damage or excessive wear.
- ARC EG-1 is now a plant standard floor repair compound.
- The client is now using ARC NVE in other chemical holding bays throughout the plant.



Completed deck with sump prepared for forming with ARC EG-1.