Increased Durability for Chemical Unloading Bay Liner

Wastewater Industry
ARC EG-1 and ARC NVE VC
ARC Case Study

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.

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.

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.

Deck floor coating condition before applications.

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

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

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