Clarifier Catwalk in Wastewater Treatment Plant Protected with ARC CS2

Wastewater Treatment in Food & Beverage Industry
ARC EG-1 and ARC CS2
ARC Case Study

Challenge

Issue
The concrete above an aeration basin was spalling badly after the existing coating failed within 24 months. This led to concrete dropping into the clarifier which lead to underflow pump service interruptions.

Goals
To prevent further concrete erosion and spalling, seal the concrete, and provide a slip-resistant surface.

Root Cause
Moisture-saturated concrete was spalling due to freeze thaw cycles.

Solution

Preparation
All surfaces were water washed. Heavily damaged areas were prepared with chipping hammers. Wherever concrete spall repairs were required, key cut terminations were employed. Finally, all surfaces were diamond ground to CSP 3 finish.

Application
Chesterton® ARC EG-1 was used to repair all spalled areas.

Chesterton ARC CS2 was applied at 15 mils and then broadcast to rejection with non-slip grit. After the initial cure, the excess grit was swept away and a 15-mil sealer coat was squeegee applied for a sealed, slip-resistant surface.

Results

Client Reported
Two catwalks were protected in 4 days. Surfaces are now virtually free of spalls, loose concrete, and trip hazards and present a sealed, slip-resistant surface.

The customer liked 100% solids technology as it eliminated concerns of fire/explosion with the off-site contractor.

Existing coating was failing, causing the concrete to deteriorate.

Loose and damaged concrete repaired with ARC EG-1.

Concrete protected with two coats of ARC CS2 with a non-slip finish.

A.W. Chesterton Company
860 Salem Street, Groveland, MA 01834 USA

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