

ARC Coatings Prevent Chemical Attack on Concrete Inlet

Wastewater Industry
ARC 988 and ARC CS4
Case Study 151

Challenge

Issue

Concrete surfaces in inlet area at dairy plant waste treatment were severely degraded due to chemical attack. Previous coating had failed in large areas leaving concrete exposed.

Goals

Repair damaged concrete and protect it from future chemical attack

Root Cause

Hot (70°C/158°F) inlet waste ranging in pH from acidic to caustic causing severe degradation of the concrete.



Failed existing coating

Solution

Preparation

- · Decontaminate surface
- Mechanically grind surface to CSP3 finish

Application

- 1. ARC 988 was applied at 6 mm (240 mils) to rebuild damaged concrete
- 2. ARC CS4 was applied at 0.8 mm 30 mils.

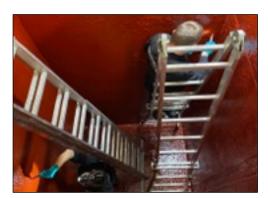
Results

Client Reported

After four years in service the repaired areas appeared flawless with zero degradation. The client decided to coat remaining areas as well as coat an additional inlet chamber.



ARC 988 and ARC CS4 products applied.



Inspecting coating after four years in service.

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