

## 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.



*ARC 988 and ARC CS4 products applied.*

## 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.



*Inspecting coating after four years in service.*