

# Weiser Wastewater Treatment Plant

## Case study

### Background

The aeration basin building at the Weiser Wastewater Plant consists of four inter-connected concrete tanks as well as the head works for the sewage treatment plant.

This part of the plant dates back to 1987 and consists of cast in-situ concrete. Despite several attempts to seal the kicker joint at the transition between the upper and lower wall, all have failed causing leakage and a potential contamination hazard.

### The solution

Following a successful trial over the kicker, Intercrete 4842 was chosen to form a flexible, seamless waterproofing membrane to all internal faces because of its high impermeability to water, resistance to sewage and excellent crack bridging properties. Surfaces were sand blasted and pressure washed to remove contamination prior to bag rubbing with Intercrete 4822 to fill minor voids and cavities. A fillet of Intercrete 4803 was laid at the wall/floor joint to ensure this critical area was sealed. Intercrete 4842 was applied using a Graco Texspray GM1030 in 2 x 1mm coats with the first coat reinforced with Intercrete 4875 in critical areas.

**Focus products:** Intercrete® 4822, Intercrete 4803, Intercrete 4842, Intercrete 4875

**Location:** Idaho, USA

**Client:** City of Weiser, Idaho, USA

**Contractor:** Liquid Plastics Inc.

**Summary:** Waterproofing of concrete aeration basin and sealing of leaking kicker joints

