



# Case Study

## Catchment Pit Lining

### Allerton Waste Recovery Plant



## The Project

Adler and Allan were engaged by contract partner Vinci Construction to undertake specialist lining works to a series of underground catchment pits at the Allerton Waste Recovery Plant. The scope of works included the cleaning, preparation and coating of gas cooling pits and anaerobic storage chambers associated with energy generation process on site.

## The Solution

Using Adalline 400 Polyurea, Adler and Allan were able to offer a lining solution that sealed the chambers, preventing any potential leaching into the surrounding area. Adalline was chosen for its structural integrity and chemical resistance which was of particular relevance due to the variable nature of the by products produced in processing household waste.

The work involved confined space working and was completed by a specialist three man team working closely with Vinci over the course of a three month construction period, always ensuring that Health and Safety remained the number one priority.

The methodology included the clearing of the chambers, washdown, preparation of joints and priming surfaces with Stainguard prior to the application of a 2mm coat of Adalline polyurea.

## The Outcome

Once applied the coatings were halliday tested to ensure integrity ensuring that the structures are ready for use from 2018 when the plant opens.



## Methodology

1. Establish safe access and egress using confined space equipment
2. Carry out a three stage wash
3. Complete any minor repairs
4. Rallithane all angles and joints
5. Apply primer with fine grit
6. Spray-apply Adalline 400 at 2mm thickness.
7. Halliday test lined surfaces
8. Clean Site and demobilise

## Benefits of Adalline® 400

**Widespread use** – Adalline provides structural integrity to any surface, thanks to the nature of its polyurea base.

**Ease of use** – there are no airborne particles, making it quick and easy to apply, even in confined spaces. It's usable within an hour and fully set after 24 hours.

**Robust performance** – thanks to its unique formula, Adalline 400 can withstand extreme temperatures, high impacts, expansion and contraction and is 100% waterproof, fire retardant and flame resistant.

**Integrity** – All our linings are validated using a dielectric testing method to provide a 100% fully warranted containment solution and offering the best environmental protection for containment systems.