

SYLWRAP Case Study



Biomass Plant Heating Tank Pipe Repair

A steel pipe in a confined space located at a height of over 20 feet in a farm's biomass plant heating tank required repair after being breached by debris



Damaged pipe located at the top of the heating tank, as seen once wrapped in SylWrap HD



The completed repair with steel deflector plate tied to the top for added protection from future debris

Defect

The damaged stainless steel pipe was 20 feet up the inside of the heating tank. It had been breached by small pieces of farm debris dropped into the tank from an inlet directly above, inadvertently picked up as part of feedstock used in the biomass process.

Normally the farm would have welded the pipe, but this was not feasible due to access being via ladder and the confined space. Instead, flexible, lightweight repair materials which could be applied from the top of a ladder were needed.

Solution

Wrap & Seal Pipe Burst Tape was used to seal the initial breach, fusing into a solid rubber band providing a pressure resistant repair.

The Tape was overwrapped with **SylWrap HD Pipe Repair Bandage** for an impact-resistant, rock hard layer of protection. Both Wrap & Seal and SylWrap HD are resistant to 200°C, enabling the repair to withstand conditions within the heating tank.

To further protect the pipe from any future debris entering the tank in feedstock, a steel deflector plate was fixed to the top of the SylWrap HD

Result

Completing the repair took less than 30 minutes for the farm's own maintenance team, cutting system downtime of the biomass plant and avoiding the expense of hiring contractors or replacing parts.

The engineer in charge was so impressed with how straightforward the repair was that he has since sought out other ways in which SylWrap can be deployed in agricultural settings.

