



Application Story

Another
Corrosion
Problem
Solved.™

Halar & SP-110S - Sulfuric Acid Application

Products Installed:

- Ultra Proline Halar E-CTFE Piping and Diaphragm Valves, 3/4" & 1/2"

Application:

Liquid: H₂SO₄

Temperature: Ambient

Concentration: 92% - 98%

Pressure: Low

Buried or Above Ground: Above Ground

Detail of Application: Skid

Searching for an alternative to the high costs of installing exotic metals on water treatment skids for sulfuric acid, the client turned to Asahi/America to explore their options. Asahi/America not only offered options, but a complete solution to the client's application needs.

Asahi/America and their distributor presented Halar (UltraPro) piping and valves for the skids, along with Asahi/America's state-of-the-art welding tool, the SP-110S, to install the system.

UltraPro is known to be long term resistant to "98+ H₂SO₄," commonly used in today's chemical feed systems. The chemically resistant properties of UltraPro proved the system to be the most appropriate piping choice for the sulfuric acid medium.

The newest addition to the Asahi/America welding fleet, the SP-110S, was then demonstrated to the customer. The SP-110S encompasses the latest technology in IR fusion equipment and features a fully automated welding process that results in consistent, repeatable, and traceable welds. These features convinced the client that their pipe fitting personnel could easily be trained to successfully fabricate the UltraPro system.

While offering ease of use through automated procedures, the SP-110S also provides flexibility for custom systems. The custom parameter feature allows the operator to pre-heat the desired pipe or fittings with adjustments for the slightly different melt-flow characteristics of the pieces. The adjustable planning feature of the SP-110S allows the operator to determine exact take-off lengths required to meet specific dimensions for close tolerance piping.

After Asahi/America trained and certified the plumbing sub-contractor on the SP-110S, the UltraPro water treatment skids were assembled in the contractor's fabrication shop. The client's use of Asahi/America UltraPro piping and the SP-110S resulted in a faster, more economical, installation that will outlast metallic piping in their concentrated sulfuric acid application.



Asahi's Ultra Proline (E-CTFE)



The Agru SP-110 S

