



Sulphuric Acid Neutralization Refinery Tank

SURE-GRIP® CASE STUDY



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Project Overview

Project name: JERP (Jamnagar Export Refinery Project)

Project date: 2007

Products: ECTFE Sure-Grip®

In 2007, ECTFE Sure-Grip® was used to cover the area of a sulphuric acid neutralization tank in India. The installation came as a recommendation from a previous customer who completed a similar project.

Situation

While developing a new refinery for the Reliance Petrochemistry Group in Jamnagar, Gujarat, India, Bechtel design engineers were in search of an appropriate lining material to cover the area of a sulphuric acid neutralization tank.

The liner would be required to withstand temperatures up to 248 °F and have a high chemical resistance to concentrated sulphuric acid.

Solution

The project's installer, Dutch plastic fabricator Versteden, had previously completed a similar project in 2005 using Agru ECTFE Sure-Grip® at Exxon in Antwerp. Although their project was significantly smaller than the Reliance neutralization tank, their positive experience with Agru Sure-Grip® led them to recommend it again for this project.

In order to save time and costs, as well as produce the best possible welding quality, the fabricator preassembled the wall, floor and ceiling elements in their workshop. These units were contained and shipped directly to the site.



Figure 1: The Reliance construction site

Outcome

The ECTFE Sure-Grip® wall elements were fixed onto the formwork, welded together and casted. Then, the ceiling's three sheeting units were finalized with PP pipe penetrations on the prepared mounting area. A specially designed flange sealing system was also installed for the tight transitions of ECTFE-lined walls and PP ceiling.

After the ceiling had been casted and the floor sheets had been cured, the grout injection method was used with a special non-shrinking cement-grout suitable for the tank's operating conditions.

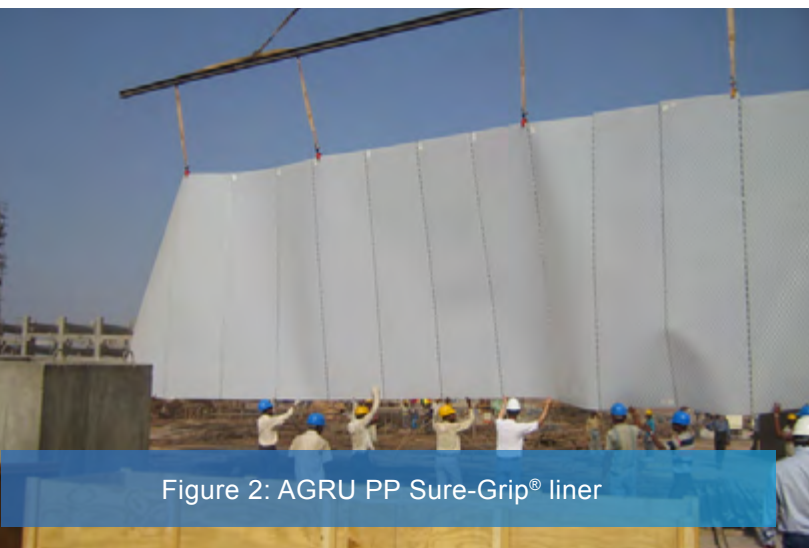


Figure 2: AGRU PP Sure-Grip® liner



Figure 3: AGRU ECTFE Sure-Grip® liner

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