

Refinery plant lining with ECTFE AGRU-SURE GRIP



Concrete successfully protected by AGRU-SURE GRIP

In the course of new development of the refinery Jamnagar (India) belonging to the Reliance petro chemistry group the design engineers of Bechtel were looking for an applicable lining material for the area of the sulphuric acid neutralization tank fulfilling highest requirements concerning durability at temperatures up to 120 °C as well as chemical resistance to highly concentrated sulphuric acid.

Already in 2005 the Dutch plastic-fabricator Verstedden, with high skilled welders and experience in processing fluoropolymers has executed a similar project with ECTFE AGRU-SURE GRIP at Exxon in Antwerp. AGRU-SURE GRIP concrete protective liners were specified due to the positive experience at this neutralization tank which was about 100 m² and therefore significantly smaller than the Reliance project.

To save time, the installation company prefabricated many parts in its workshop.

To ensure the best possible welding quality and to save costs and time the fabricator did pre-assemblies of the wall, the floor and the ceiling-elements in their own workshop. These pre-manufactured units were shipped in boxes directly to the site.

The ECTFE AGRU-SURE GRIP wall elements were fixed onto the formwork, welded among each other and then casted. The three sheeting units of the ceiling were finalized with PP pipe penetrations on the especially prepared mounting area.

For the tight transition of ECTFE lined walls and PP ceilings a specially designed and qualified flange sealing system was installed.

After the casting of the ceiling and the curing of the floor sheets the grout injection method, with a special non-shrinking cement-grout suitable for these operating conditions, was used.



The construction site



PP AGRU-SURE GRIP liner



ECTFE AGRU-SURE GRIP liner



PP AGRU-SURE GRIP liner



ECTFE AGRU-SURE GRIP liner



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