

Ammonium Sulphate Feed Tank Restored with Belzona SuperWrap II

ID: 9434

Industry: Mining & Quarrying
Application: VPF-Valves, Pipes and Fittings
Substrate: Stainless-steel
Products: Belzona SuperWrap II

Customer Location: Australia
Application Date: January 2024

Problem

The Customer's stainless steel feed tank was suffering from corrosion under insulation and chloride induced stress corrosion cracking.



Corrosion under insulation on an ammonium sulphate feed tank

Composite wrap system curbs corrosion under insulation at nickel mine

Corroded tank in need of long-term repair and protection

Stainless steel feed tank repaired and protected

Application Situation

The Customer required a solution that would not only restore the integrity on the substrate, but also protect the asset against future corrosion damage. Not only this, but as the tank operates at elevated temperatures of approximately 70°C (158°F) and processes highly corrosive medium, the repair solution would need to be able to withstand these harsh conditions.

Application Method

Firstly, all traces of oil and grease contamination were removed using a suitable Rezitech Degreaser. Following this, the surfaces were grit-blasted to provide a surface cleanliness compliant with ISO 8501-1 SA 2½ (ASNZ 1627.4 class 2.5) with a minimum 75 µm (3 mil) rough angular profile.

Once the surface was prepared, the Belzona 9381 reinforcement sheet was measured out and then wetted out with the Belzona resin system. The resin was then systematically applied to the areas to be repaired. Following this, the Belzona reinforcement sheets were then applied to the tank in three layers. The compression film was then added to the top of the application area. Next, using a roller, the Belzona SuperWrap II composite wrap system was then spread, rolled and compressed to the surface of the tank. The system was then left to cure for approximately eight hours.

Belzona Facts

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

Belzona products are
manufactured under an ISO
9000 Registered Quality
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Having worked with the distributor over the course of five years, the Customer had complete confidence in the range of Belzona metal epoxy repair composites and industrial repair coatings the Distributorship offers. As such, they decided to contact them again for their advice and system recommendation.

By investing in the Belzona composite wrap solution, this enabled the Customer to successfully bypass the need to replace the corroded asset, and instead prolong the lifespan of the asset for years to come. Thus, this enabled the Customer to make significant savings in both time and money.

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