Rhino Linings®
INDUSTRIAL DIVISION
PREMIUM POLYURETHANE SYSTEMS®

Case Study

Petrochemical Industry – Primary Containment

Customer:
This customer is a liquid handling and transport company located in the Western U.S. The company manufactures 21,000 gallon capacity frac tanks. The company has 500 frac tanks in its fleet.

Spraying Pit Tank

Problem:
The chemicals contained in frac tanks utilized by this company are very corrosive, resulting in significant damage repair/replacement costs for these tanks. The company was seeking a durable protective coating or lining to solve their impact, abrasion and corrosion problems.

Considerations:
The tanks are located in the oil fields adjacent to rigs and are subjected to all temperature ranges. Because the tanks remain in the fields for years at a time with very little maintenance, it was determined that a thin coating would not hold up to the chemicals long enough to be an effective solution. The company was also concerned with finding a solution that would require minimum downtime.

Solution:
Hi-Chem™ sprayed-on lining, the most chemical-resistant Rhino Linings® polyurethane formulation, was chosen because of its high cross-linking and resulting strong chemical resistance. At the time of application, the tanks were brand new. Each frac tank was shot-blasted to a near white blast (SSPC 5) and Hi-Chem was sprayed on at a thickness of 1/8" (.3175 cm). Hi-Chem's fast cure time allowed the company to have their equipment back in service within 24 hours.

Results:
Rhino Linings Hi-Chem formulation has helped lower the company's refurbishment costs by making their tanks more reliable and more resistant to corrosion. Rhino Linings has helped the company decrease the amount of maintenance time required to keep these tanks in good condition. The executive responsible for this operation has reported that he has had no failures on the linings since he started using Rhino Linings over seven years ago.

Industrial Tank Complete

Industrial applications are highly specialized and specific consultation and training may be required to perform such applications.
Rhino Linings USA, Inc. does not provide confined space training and expertise in this area may be required for some applications.
Product MSDS sheets and specific chemical properties should be evaluated before undertaking any industrial application.