



HYDRAWRAP

STRUCTURAL COMPOSITE REPAIR SYSTEM

Market

Petrochemical

Challenge

The challenge was to reinforce defected areas of a high pressure gas transmission line due to external corrosion and provide protection from further corrosion.

Engineered Solution

The solution utilized the HydraWrap® Structural Composite Repair System.

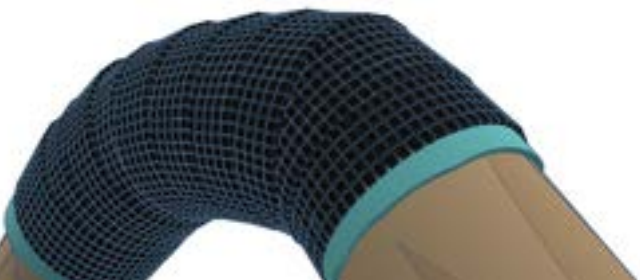
Scope

A client requested a permanent structural repair of the exterior of 14-in diameter API 5L X46 piping to prevent further corrosion to the area and to restored it back to original condition.

Solution

The solution utilized four layers of the HydraWrap® carbon fiber system to repair areas of the pipe with wall losses of 40% or greater. The exterior of the piping was prepared by grit blasting the surface to remove any dirt and loose debris and to obtain a surface profile. Once the surface was prepared, the HydraWrap® epoxy primer was applied to fill in voids to bring the pipe back to original shape and promote adhesion. Once the pipe's surface was primed, the HydraWrap® carbon fiber was saturated with HydraWrap® wet-out epoxy and applied to the primed surface.

Two separate areas of the 14-in pipe were repaired and reinforced with the HydraWrap® carbon fiber reinforced composite. The HydraWrap® system restored the structural integrity and extended the service life of the pipe.



HydraTech Engineered Products, LLC
HydraTech Field Services, LLC
10448 Chester Road, Cincinnati, Ohio 45215
Phone: (513) 827-9169 Fax: (513) 827-9171
<http://www.hydratechllc.com>

