

BELZONA 1523/1593 HELP COMBAT CORROSION WITHIN AN AMMONIA ACID GAS KOD

CUSTOMER
USA

APPLICATION DATE
January 2014

APPLICATION SITUATION

Ammonia acid gas knock-out drum (KOD) operating at 250°F and suffering from corrosion due to exposure to a mixture of hydrocarbons consisting of C1-C5, nitrogen, ammonia, water, and wet carbon dioxide.

PROBLEM

Knock-out drums are susceptible to corrosion due to the aggressive chemicals and high operating temperatures.

PRODUCTS

Belzona 1523
Belzona 1593
Belzona 9111 (Cleaner Degreaser)

SUBSTRATE
Carbon Steel

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflet TCC-5. After grit blasting to SSPC-SP 10, the surface was Bresle tested for salt soluble contaminants, cleaned, and degreased with Belzona 9111. Due to high levels of relative humidity, a dehumidifier unit was utilized to prevent flash rusting of the prepared surface, thus avoiding any risk of corrosion prior to coating. Following this, Belzona 1593 hand applied lining was used for stripe coating and nozzle lining. The crew continued with the application of Belzona 1523 using a plural component Graco airless spray system. The coating was applied as a two-coat system with contrasting colors. The application was reported to be a success and the material was found to "spray beautifully". Coating was allowed to cure for inspection. High voltage test was conducted and spotted pinholes were repaired accordingly using Belzona 1593.

BELZONA FACTS

With simplified application techniques, the client was able to avoid expensive equipment replacement costs as well as the high expenses that can be incurred when employing contractors for large periods of time.

PICTURES

1. The surface was prepared by blasting to SSPC SP-10 Near White Metal
2. Stripe coating of welds and sharp angles with Belzona 1593
3. Application of the 2nd coat of Belzona 1523 in light grey
4. Complete application



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